# MINUTES OF THE RSAI COUNCIL MEETING VANCOUVER, NOVEMBER 10 THURSDAY, 8:00 10:00

#### 1. Apologies (Annex 1)

Councill members present: Budy Resosudarmo (RSAI President), Mark Partridge (President Elected and Councillor at Large), Neil Reid (NARSC Executive Director), Peter Stenberg (NARSC Representative), Jouke Van Dijk (ERSA President), Alessandra Faggian (NARSC representative), Andre Torre (ERSA Representative), Isabelle Thomas (ERSA representative), Carlos Azzoni (President of LACRSA), Eduardo Haddad (LACRSA representative), Patricio Aroca (PRSCO President), Erendira Serrano (PRSCO representative), Laurie Schindler (Councillor at Large), Daniel Griffith (Councillor at Large) and Tomaz Dentinho (Executive Director),

Long Range Planning Committee Members present: Roger R. Stough, Roberta Capello, Andres Rodriguez Pose, Budy Resosudarmo, Jean Claude Thill and Mark Partridge

Ex-Officio members present:

Invited members: Fu-Chuan Lai (President Elected of PRSCO), Rosella Nicolini (Elected Councillor at large), Amitrajeet A. Batabyal (Elected Councillor at Large), Hiroyuki Shibusawa (PRSCO Executive Director).

Apologies from Council Members: Jichung Yang (PRSCO representative), Tüzin Baycan (Councillor at Large), Emmanouil Tranos (Councillor at large) and Francisco Carballo-Cruz (ERSA representative in transition).

M-I. The RSAI Council acknowledged the apologies.

## 2. Approval of the minutes of the Minneapolis meeting

Budy Resosudarmo informed the Council that the Minutes of the RSAI Meeting in Groningen were distributed previously and asked the members to vote the Minutes.

M-II. The RSAI Council approved unanimously the Minutes of the Council in Groningen (August 2017)

## 3. RSAI Budget 2018 (Annex 2a, Annex 2b)

Tomaz Dentinho recalled that the budget proposal for 2018 is in Annex 2a. Tomaz Dentinho explained that the expected revenues summing 96,800 € come from the profits distribution of journals (56%) and from membership fees (44%). The programmed expenditures, totalizing 96800 €, go to journal subscription (28%), journal edition (23%), to the RSAI awards (5%), to accountancy and secretariat (10%) and to the programs Nurturing Talent, Building Bridges and Thinking Big (34%). Mark Partridge suggested the construction of Pie Charts to present the Budget and expose it in RSAI webpage. Tomaz Dentinho also explained that the margin of the RSAI World Congress is presented separately. Andrés Rodriguez Pose said that RSAI programs are for bottom up applications. Tomaz Dentinho informed the Council that so far the distribution of the funds for the programs was indicative because until November there were not enough application. Budy Resosudarmo proposed an extension of the Call for project Nurturing Talent, Building Bridges and the creation of a Selection Committee composed by himself, Andrés Rodriguez-Pose, Mark Partridge and Tomaz Dentinho that will send an allocation proposal to vote on-line by the Council.

M-IIIa. The RSAI Council approved unanimously the Budget Proposal for 2018 and the nomination of the Committee to select the projects for the Programs Nurturing Talent, Building Bridges and Thinking Big to be approved on-line by the Council

A Second Call for the RSAI Programs was made with the deadline of November the 30<sup>th</sup>. One first distribution proposal was suggested to the Council Members on December the 3<sup>rd</sup> and, after on-line dialogue between RSAI Council Members, a second distribution proposal was made on December the 11<sup>th</sup> (Annex 2b).

M-IIIb. The RSAI Council approved on-line by majority the distribution of the Funds Available for the projects submitted.

	ouncil Members	
	Name	On-Lline vote
1	Budy Resosudarmo	
2	Patricio Aroca	
3	Jichung Yang	absente
4	Erendira Serrano	
5	Neil Reid	absente
6	Peter Stenberg	
7	Alessandra Faggian	
8	Jouke Van Dijk	
9	Isabelle Thomas	
10	Andre Torre	absente
11	Carlos Azzoni	
12	Jaime Bonet	
13	Eduardo Haddad	
14	Emmanouil Tranos	
15	Daniel Griffith	
16	Tüzin Baycan	
17	Fabio Mazzola	absente
18	Laurie Schintler	
19	Mark Partridge	
20	Tomaz Dentinho	

## 4. Election of Councilors at Large and Replacement of Representatives (Annex 3).

Francisco Carballo Cruz

Tomaz Dentinho informed that according to the RSAI Constitution and By-Laws the election of the members for the places of Councilors at Large took place on-line along September and October. He also informed that the number of votes increased to 528 and that Amit Batabyal, Sumana Bandyopadhyay and Rosella Nicolini were elected Councilors at Large for the period 2018-2020.

absente

M-IV - The RSAI Council approved unanimously the selection of Amit Batabyal, Sumana Bandyopadhyay and Rosella Nicolini as new Councillors at Large for the period 2018-2020 and approved a vote of thanks for the services provided to the association done by the Councillors at Large that served for the period 2015-2017 Emmanouil Tranos, Daniel Griffith and Tüzin Baycan.

## 5. World Congress (Annex 4)

Tomaz Dentinho informed the Council that the 1<sup>st</sup> Call for he submission of abstract for World Congress in Goa is open and that the target is to have around 500 delegates; he also informed that the budget of the Congress expect a margin of 13,000 € for RSAI. Neil Reid asked for more clear information on visa issues and if those who paid the registration fees in recent World Congresses (Bangkok 2014 and Istanbul 2016) that were not reimbursed, could be used as registration fees for the Congress in Goa. Tomaz Dentinho responded that the amount of registration fees that were not reimbursed is around 8000 € and that the Council can decide to allow free registration for the Congress in Goa for those that registered previously and were not reimbursed.

M-V- The RSAI Council agreed unanimously that those that registered previously and were not reimbursed can have a free registration for the Congress in Goa.

## 6. Establishment of the Restructuring Committee of RSAI (Annex 5a, 5b and 5c)

Budy Resosudarmo informed the Council that in the Council Meeting of Groningen decide to creation of a RSAI Committee to monitor the evolution of RSAI in Asia and to propose the restructuring of RSAI structure of supra regional associations within the period of three years. Budy Resosudarmo proposed the nomination of Kingsley

Haynes from the Long Range Planning Committee, Fu-Chuang Lai from PRSCO, Paul Snow from the Regional Science Association of China, someone appointed by the Japanese Section, Sumana Banerjee from the Indian Regional Science Association and himself as President of RSAI and member of the Indonesian Regional Science Association. Budy Resosudarmo said that the first meeting would be in May in Goa during the World Congress.

Rosella Nicolini said that RSAI should not adjust too much to incoming members. Budy Resosudarmo informed that the restructuring committee would assess the evolution of RSAI in Asia and Africa and see what might be the best structure to promote regional science around the world. André Torre suggested that the committee should have one person from each supra regional. Budy Resosudarmo did not oppose the idea. Jouke Van Dijk said that we should focus on the issues to address that are mainly in Asia. Budy Resosudarmo clarified that the Committee will address two points: a) the accession of RSAC within RSAI (Annex 5a, Annex 5b; Annex 5c), and b) the restructuring of RSAI.

M-VI. The RSAI Council approved unanimously the constitution of the Restructuring Committee of RSAI.

## 7. Contract with the Publishers (Annex 6a, 6b and 6 c)

Jean Claude Thill informed the Council that, following the decision of the RSAI Council in Minneapolis 2017, RSAI sollicited proposals from various publishers for a new contract to publish RSAI journals. Jean Claude Thill said that three proposals were presented – Wiley, Oxford University Press (Oxford) and Springer – and a committee formed by himself, Budy Resosudarmo, Andrés Rodríguez-Pose, Mark Partridge, Roberta Capello and Tomaz Dentinho analysed the proposals and decided to recommend to RSAI Council to vote for the proposal of Oxford. Details of the proposals were discussed during Council meeting. Jean-Claude Thill will handle the finalization of a contract within the confines of what the current contract with Wiley requires.

M-VII. The RSAI Council approved unanimously to choose the proposal of the Oxford University Press based on royalties to publish the RSAI journals from 2019 until 2023.

## 8. Note on Membership and financial relations with the Sections (Annex 7)

Jouke Van Dijk said that nowadays RSAI universal membership fees are collected by RSAI Secretariat from the Sections and that ERSA collects from each section in Europe a Section fee of 250 €. Jouke Van Dijk said that such situation is confusing for the sections and the members. He suggested that those fees should be collected from the sections by the supraregionals. Supraregional organizations then transfer the RSAI Universal membership fee to RSAI Secretariat. Tomaz Dentinho informed that before 2011 membership fees were collected by Wiley from the sections. Since 2011, RSAI Secretariat has been collecting the fees from the Sections or the Supraregional for the case of NARSC. RSAI Secretariat then pays the subscription of the journals to Wiley. Tomaz Dentinho also informed that once RSAI establishes a new contract with the publishers, RSAI universal membership fees could be allocated to international activities of RSAI, supraregionals and sections; furthermore supra regionals can collect directly the fees from the sections and sent them to RSAI as is done by NARSC and was done by ERSA for the fees coming from regional scientists in Lithuania before the creation of the Baltic Section. Roberta Capello said that we should clarify the financial issues between sections, supraregionals and RSAI and reinforced that members should understand what they get from being part of the association. Budy Resosudarmo agreed that the financial issues between sections, supraregionals da RSAI should be clarified in terms of collection of fees and distribution of resources and suggested that the topic should be addressed in the next Council Meeting with a proposal to address the financial issues between members, sections, supraregionals and RSAI.

## 9. Awards

## - Hirotada Kohno Award

Andrés Rodríguez-Pose informed the Council that t Juan Ramón Cuadrado-Roura is the winner of the 2017 Kohno Prize. Juan Cuadrado-Roura is Founder Director of the Institute for Economic and Social Analysis (IAES) and Applied Economics Professor at the University of Alcalá.

#### - Jean Paelinck Award

Roger Stough informed the Council that the Selection Jury selected Professor Arthur Getis, a Professor Emeritus of Geography at San Diego State University, to receive the RSAI Jean Paelinck Award 2017.

#### - Peter Nijkamp Award

Carlos Azzoni informed the Council that the Peter Nijkamp Award 2017 will be given in the World Congress in

#### - Dissertation Competition Award

Laurie Schintler informed the Council that the Dissertation Award 2017 was given to Mirjam Schindler for her dissertation entitled "Spatial modelling of feedback effects between urban structure and traffic-induced air pollution - Insights from quantitative geography and urban economics". Mirjam Schindler was supervised by Professor Geoffrey Caruso, Institute of Geography and Spatial Planning, University of Luxembourg.

#### - Stan Czamanski Award

Laurie Schintler informed the Council that there were no applications for the Stan Czamanski Award but that new applications can come to select an awardee for the Congress in Goa.

#### 10. RSAI Publications

## Papers in Regional Science (Annex 8a, 8b)

Roberta Capello asked on-line to change the editorial team of Papers in Regional Science (Annex 7a) because Michaela Trippl, has been appointed in an important position at the Vienna University. Roberta Capello suggested to substitute Michaela Trippl by Daniel Griffith (Annex 7a) to cover the area of quantitative geography and to have an additional editor based in the US.

M-VII. The RSAI Council approved on-line unanimously the proposal to substitute Michaela Trippl by Daniel Griffith in the editorial team of Papers in Regional Science.

2017 RSAI Council Members

Name On-Lline vote

	Name	On-Lline vote
1	Budy Resosudarmo	
2	Patricio Aroca	
3	Jichung Yang	Absente
4	Erendira Serrano	
5	Neil Reid	
6	Peter Stenberg	Absente
7	Alessandra Faggian	
8	Jouke Van Dijk	
9	Isabelle Thomas	
10	Andre Torre	
11	Carlos Azzoni	
12	Jaime Bonet	Absente
13	Eduardo Haddad	
14	Emmanouil Tranos	
15	Daniel Griffith	
16	Tüzin Baycan	Absente
17	Fabio Mazzola	Absente
18	Laurie Schintler	

19	Mark Partridge	
20	Tomaz Dentinho	
21	Francisco Carballo Cruz	

## 11. Regional Science Academy

Jouke Van Dijk said that this is the theme of the Regional Science Academy is a recurring one in the RSAI Council and does not understand why that is the case. Tomaz Dentinho said that the topic of the agenda was kept from the last meeting in Groningen since there was no time to reach it.

## 12. Date of next meeting

Goa, May 2018

## **Annex 1: RSAI Council Members**

## **2017 RSAI Council Members**

	Name	Member	Period	Email
1	Budy Resosudarmo	President	2017-2018	budy.resosudarmo@anu.edu.au
2	Patricio Aroca	PRSCO President	2016-2017	paroca@ucn.cl
3	Jichung Yang	Prsco Representative	2013-2018	jcyang@snu.ac.kr;
4	Erendira Serrano	Prsco Representative	2015-2017	sesohi@hotmail.com
5	Neil Reid	NARSC President	2012-2017	neil.reid@utoledo.edu
6	Peter Stenberg	NARSC Representative	2016-2018	STENBERG@ers.usda.gov
7	Alessandra Faggian	NARSC Representative	2016-2018	alessandra.faggian@gssi.it
8	Jouke Van Dijk	ERSA President	2015-2018	jouke.van.dijk@rug.nl
9	Isabelle Thomas	ERSA representative	2015-2017	isabelle@geog.ucl.ac.be
10	Andre Torre	ERSA representative	2014-2019	andre.torre@wanadoo.fr
11	Carlos Azzoni	LACRSA President	2015-2017	cazzoni@usp.br
12	Jaime Bonet	LACRSA Representative	2017-2020	jbonetmo@banrep.gov.co
13	Eduardo Haddad	LACRSA Representative	2017-2020	ehaddad@usp.br
14	Emmanouil Tranos	Councilor at large	2015-2017	e.tranos@bham.ac.uk
15	Daniel Griffith	Councilor at large	2015-2017	dagriffith@utdallas.edu
16	Tüzin Baycan	Councilor at large	2015-2017	tbaycan@itu.edu.tr
17	Fabio Mazzola	Councilor at large	2016-2018	fabio.mazzola@unipa.it
18	Laurie Schintler	Councilor at large	2017-2020	lschintl@gmu.edu
19	Mark Partridge	Presindent Elected	2017	partridge.27@osu.edu
20	Tomaz Dentinho	Executive Director	2011-2018	tomas.lc.dentinho@uac.pt
21	Francisco Carballo Cruz	ERSA representative (transition)	2017-2019	fcarballo@eeg.uminho.pt

## **LRPC Members**

1	Peter Nijkamp	President	1991 - 1992	pnijkamp@feweb.vu.nl
2	Lay J. Gibson	President	1993-1994	ligibson@ag.arizona.edu
3	Kingsley E. Haynes	President	1995-1996	khaynes@gmu.edu
4	Peter W. J. Batey	President	1997-1998	pwjbatey@liv.ac.uk
5	H.Khono	President	1999-2000	
6	Geoffrey J.D.Hewings	President	2001-2002	hewings@uiuc.edu
7	Antoine Bailly	President	2003-2004	antoine.bailly@unige.ch
8	Robert J. Stimson	President	2005-2006	rstimson@unimelb.edu.au
9	Roger R. Stough	President	2007-2008	rstough@gmu.edu
10	Roberta Capello	President	2009-2010	roberta.capello@polimi.it
11	Yoshiro Higano	President	2011-2012	higano@jsrsai.envr.tsukuba.ac.jp
12	Jean-Claude Thill	President	2013-2014	Jean-Claude.Thill@uncc.edu
13	Andres Rodriguez Pose	President	2015-2016	a.rodriguez-pose@lse.ac.uk
14	Jacques Poot	President	2017	jpoot@waikato.ac.nz
15	Budy Resosudarmo	President	2017-2018	budy.resosudarmo@anu.edu.au
16	Mark Partridge	President Elected	2017-2020	partridge.27@osu.edu

## **RSAI Ex-Oficcio Members**

1	Roberta Capello	Editor of PIRS	roberta.capello@polimi.it
2	Tomaz Dentinho	Editor of RSPP	tomas.lc.dentinho@uac.pt
3	David Boyce	Archivist	d-boyce@northwestern.edu
4	Peter W. J. Batey	Archivist	pwjbatey@liv.ac.uk
5	Andrea Caragliu	Newsletter Editor	andrea.caragliu@polimi.it
6	Graham Clarke	Newsletter Editor	G.P.Clarke@leeds.ac.uk
7	Hiroyuki Shibusawa	PRSCO Executive	hiro-shibu@tut.jp
8	Francisco Carballo Cruz	Treasurer	fcarballo@eeg.uminho.pt
9	Elisabete Martins	Finance Director	Elisabete.martins@apdr.pt

## **Invited Members**

1	Sumana Banerjee	President of the Regional Science Association in India	sumona bm@yahoo.com
2	2 Anahit Harutyunian Armenian Delegation		anahitharutyunian@gmail.com
3	Abdellatif Khattabi	President of the Moroccan Section	ab khattabi@yahoo.com
2	Xue Ling	Vice President of the Regional Science Association of China	paulsnow@pku.edu.cn
4	LI Guoping	Executive member of the council of RSAC	lgp@pku.edu.cn
5	XI Qiangmin	Member of TSAC	xqm815@126.com
6	WU Aizhi	Academic Secretary of RSAC	waz@pku.edu.cn

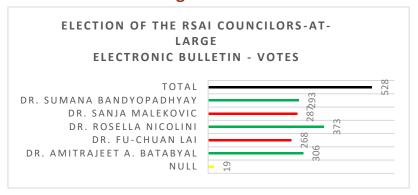
## Annex 2a – Budget for 2018

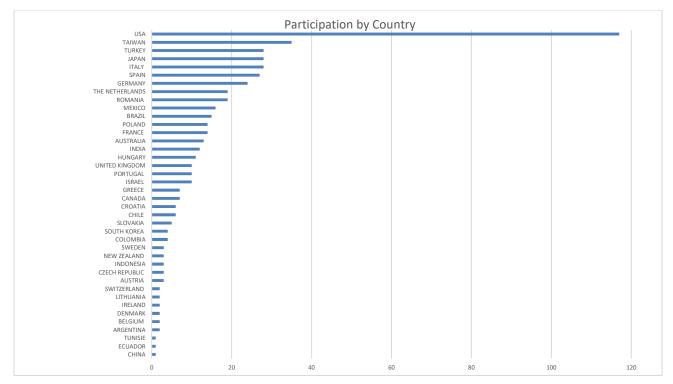
Bookse	n	Contra	Mr
Description	Revenues	Costs	Margin
General	0,00 €	9 390,00 €	-9 390,00 €
ACCOUNTING	0,00€	3 700,00 €	-3 700,00 €
WEBSERVER	0,00€	200,00 €	-200,00€
RSAI SECRETARIAT	0,00€	5 000,00 €	-5 000,00 €
OTHERS	0,00€	490,00€	-490,00 €
Wiley	54 000,00 €	27 000,00 €	27 000,00 €
PIRS AND RSPP 2017 PROFIT SHARE	24 000,00 €	0,00€	24 000,00 €
PIRS ADVANCE ON EDITORIAL AND TRAVEL EXPENSES 2018	25 000,00 €	0,00€	25 000,00 €
RSPP ADVANCE ON EDITORIAL AND TRAVEL EXPENSES 2018	5 000,00 €	0,00€	5 000,00€
PAYMENT TO WILEY - YEAR 2018 - RSAI SUBSCRIPTIONS	0,00€	27 000,00 €	-27 000,00 €
Editorial	0,00€	22 500,00 €	-22 500,00 €
RSAI NEWSLETTER PAYMENT	0,00€	1 000,00 €	-1 000,00 €
RSAI NEWLETTER PRINTING	0,00€	1 500,00 €	-1 500,00 €
PIRS EDITORIAL OFFICE ANUAL EXPENSES	0,00€	7 500,00 €	-7 500,00 €
PIRS EDITORIAL AND TRAVEL EXPENSES PAYMENT FOR EDITOR	0,00€	5 000,00€	-5 000,00 €
RSPP EDITORIAL OFFICE ANUAL EXPENSES	0,00€	2 500,00 €	-2 500,00 €
RSPP EDITORIAL AND TRAVEL EXPENSES PAYMENT FOR EDITOR	0,00€	5 000,00 €	-5 000,00 €
RSAI Awards	0,00€	4 910,00 €	-4 910,00 €
MARTIN BECKMANN AWARD (500£) - CASH	0,00€	560,00€	-560,00€
DISSERTATION AWARD - CASH	0,00€	750,00 €	-750,00 €
PETER NIJKAMP AWARD - CASH	0,00€	750,00 €	-750,00€
RSAI YOUNG RESEARCHERS PRIZE - 1ST PRIZE - CASH	0,00€	600,00€	-600,00€
RSAI YOUNG RESEARCHERS PRIZE - 2ND PRIZE - CASH	0,00€	300,00€	-300,00€
RSPP ANNUAL PAPER AWARD - CASH	0,00€	750,00 €	-750,00€
RSPP ANNUAL REFEREE AWARD - CASH	0,00€	0,00€	0,00€
PLAQUES	0,00€	1 200,00 €	-1 200,00 €
RSAI Supports	0,00€	33 000,00 €	-33 000,00 €
NURTURING NEW TALENT	0,00€	25 000,00 €	-25 000,00 €
BULDING BRIDGES	0,00€	5 000,00€	-5 000,00 €
SUPPORT FOR THE PREPARATION OF RESEARCH PROJECTS	0,00€	3 000,00€	-3 000,00 €
Memberships	42 800,00 €	0,00€	42 800,00 €
MEMBERSHIP BALTIC SECTION	250,00€	0,00€	250,00€
MEMBERSHIP BRITISH AND IRISH SECTION	735,00€	0,00€	735,00 €
MEMBERSHIP BULGARIAN SECTION	150,00€	0,00€	150,00€
MEMBERSHIP CROATIA SECTION	310,00€	0,00€	310,00€
MEMBERSHIP DUTCH SECTION	1 174,00 €	0,00€	1 174,00 €
MEMBERSHIP FRENCH SECTION	2 280,00 €	0,00€	2 280,00 €
MEMBERSHIP GERMAN SECTION	2 530,00 €	0,00€	2 530,00 €
MEMBERSHIP GREEK SECTION	510,00€	0,00€	510,00€
MEMBERSHIP HUNGARIAN SECTION	574,00€	0,00€	574,00 €
MEMBERSHIP ISRAEL SECTION	271,00€	0,00€	271,00 €
MEMBERSHIP ITALIAN SECTION	2 331,00 €	0,00€	2 331,00 €
MEMBERSHIP NORDIC SECTION	280,00€	0,00€	280,00 €
MEMBERSHIP POLISH SECTION	680,00€	0,00€	680,00€
MEMBERSHIP PORTUGUESE SECTION	1 030,00 €	0,00€	1 030,00 €
MEMBERSHIP ROMANIAN SECTION	400,00€	0,00€	400,00€
MEMBERSHIP SLOVAKIA SECTION	685,00€	0,00€	685,00€
MEMBERSHIP SPANISH SECTION	3 790,00 €	0,00€	3 790,00 €
MEMBERSHIP TURKISH SECTION	605,00€	0,00€	605,00 €
MEMBERSHIP ARGENTINA SECTION	220,00€	0,00€	220,00 €
MEMBERSHIP BRAZIL SECTION	1 160,00 €	0,00€	1 160,00 €
MEMBERSHIP CHILEAN SECTION	540,00€	0,00€	540,00 €
MEMBERSHIP ECUADORIAN SECTION	380,00€	0,00€	380,00 €
MEMBERSHIP MEXICAN SECTION	590,00€	0,00€	590,00 €
MEMBERSHIP NARSC SECTION	9 751,00 €	0,00€	9 751,00 €
INDIVIDUAL MEMBERSHIPS	1 200,00 €	0,00€	1 200,00 €
MEMBERSHIP ARMENIA SECTION	60,00 €	0,00€	60,00€
MEMBERSHIP CHINA SECTION	1 000,00 €	0,00€	1 000,00 €
MEMBERSHIP MOROCCAN SECTION	100,00€	0,00€	100,00 €
MEMBERSHIP ARSC SECTION	1 568,00 €	0,00€	1 568,00 €
MEMBERSHIP AUSTRALIA/NEW ZEALAND SECTION	730,00€	0,00€	730,00 €
MEMBERSHIP COLOMBIAN SECTION	190,00€	0,00€	190,00€
MEMBERSHIP INDIA SECTION	270,00€	0,00€	270,00 €
MEMBERSHIP INDONESIAN SECTION	200,00€	0,00€	200,00 €
MEMBERSHIP JAPANESE SECTION	5 247,00 €	0,00€	5 247,00 €
MEMBERSHIP KOREAN SECTION	250,00€	0,00€	250,00€
MEMBERSHIP TAIWAN SECTION	759,00€	0,00€	759,00 €
TOTALS FOR THE PERIOD WITHOUD CONGRESS	96 800,00 €	96 800,00 €	0,00€
RSAI MARGINS OF WORLD CONGRESS 2018 (529 delegates)	20 301,95 €	6 495,10 €	13 806,85 €
TOTALS FOR THE PERIOD WITH CONGRESS	117 101,95 €	103 295,10 €	13 806,85 €

## Annex 2b – Allocation of Funds of Nurturing Talent 2018

N	Conta ct	Email	Institutions	Designation	Locatio n	Dates	Participants	Days	Amount requestec	Requested RSAI Support	1st Proposal	1st RSAI Support per	2nd Proposal	2nd RSAI Support per Student/Day
1	Vinko Mustr a	vmust ra@ef st.hr	TRSA- University of Split	Summer Course: From Smart to Intelligent Cities	Split	June 18 - 22, 2018	40	4	4000	25	4000	25	3000	19
2	Maria Giulia Pezzi	giulia. pezzi @gssi. it	Gran Sasso Science Institute, Social Sciences Unit – University of Acquila	The Geography of craft beer brewing and consumption: local entrepreneurialism and tourism development	L'Aquila	July 2018	40	3	9700	81	3000	25	4000	33
3	Farid ah Djella I	farida h.djell al@un iv- lille1.f r	ERSA - University of Lille	1st ERSA Winter School "Structural change, innovation, competitiveness and regional development in a Service Economy »	Lille	January 22-26, 2018	27	5	5000	37	5000	37	5000	37
4	Marit es Tiong co	marite s.tiong co@dl su.edu .ph	PRSCO - De La Salle University	Summer Training on Data Analysis with Spatial Econometrics	Manila	May 9 to 12, 2018	30	4	3000	25	3000	25	3000	25
5	Nguy ễn Lưu Bảo Đoan - Khoa Kinh tế	doann lb@ue h.edu. vn	PRSCO - The University of Economics – HCMC, Vietnam	Summer School 2018: Inter-regional Computable General Equilibrium Modelling and Applications	Ho Chi Minh	August 7- 10	40	4	5000	31	5000	31	3500	22
6	Stefa n Reha k	stefan .rehak @eub a.sk	ERSA - University of Economics in Bratislava	31st ERSA Summer School Regional Policy Analysis and Planning - Evaluation Theory and Practice	Bratisla va	July 1-8, 2018	30	8	6120	26	2000	8	5000	21
7	Hera Susan ti	hera.c pt27b @gma il.com	PRSCO - Department of Economics FEB UI, Kampus UI Depok, Indonesia.	Intensive Course Program: Urban and Regional, Transportation and Environmental Economics	Depok	January 15 to February 8, 2018	30	20	3000	5	3000	5	3000	5
8	Rafae I Boix	rafael. boix@ uv.es	University of Valencia	Workshop on Modelling of Water Resources Management from a Regional Approach	Valenci a	Novembe r 14, 2018	10	0,5	500	100	0	0	0	0
9	Arim Neto	amnet o@mi x.wvu. edu	NARSC - West Virginia University	11th Annual Midwest Graduate Student Summit on Applied Economics and Regional Science (AERS)	West Virginia	April	50	2	5000	50	5000	50	3500	35
1									41320		30000		30000	

## Annex 3 - Election of Councilors at Large





## **2018 RSAI Council Members**

	2010 NOAI COUNCII MICINDEIS							
	Name	Member	Period	Email				
1	Budy Resosudarmo	President	2017-2018	budy.resosudarmo@anu.edu.au				
2	Mark Partridge	Vice President	2018	partridge.27@osu.edu				
3	Fu-Chuan-Lai	PRSCO President	2018-2020	uiuclai@gate.sinica.edu.tw				
4	Lily Kiminami	PRSCO Representative	2018-2020	kiminami@agr.niigata-u.ac.jp				
5	Armida Alisjahbana	PRSCO Representative	2018-2020	armida.alisjahbana@unpad.ac.id				
6	Neil Reil	NARSC President	2018-2020	neil.reid@utoledo.edu				
7	Peter Stenberg	NARSC Representative	2016-2018	STENBERG@ers.usda.gov				
8	Alessandra Faggian	NARSC Representative	2016-2018	alessandra.faggian@gssi.it				
9	Jouke Van Dijk	ERSA President	2015-2018	jouke.van.dijk@rug.nl				
10	Francisco Carballo Cruz	ERSA Representative	2017-2019	fcarballo@eeg.uminho.pt				
11	Andre Torre	ERSA Representative	2014-2019	andre.torre@wanadoo.fr				
12	Serena	LARSA President	2018-2020	sesohi@hotmail.com				
13	Jaime Bonet	LARSA Representative	2017-2019	jbonetmo@banrep.gov.co				
14	Eduardo Haddad	LARSA Representative	2017-2019	ehaddad@usp.br				
15	Amit Batabyal	Councilor at large	2018-2020	aabgsh@rit.edu				
16	Sumana Bandyopadhyay	Councilor at large	2018-2020	cu.rsa2016@gmail.com				
17	Rosella Nicolini	Councilor at large	2018-2020	Rosella.nicolini@uab.cat				
18	Fabio Mazzola	Councilor at large	2016-2018	fabio.mazzola@unipa.it				
19	Laurie Schintler	Councilor at large	2017-2019	lschintl@gmu.edu				
20	Tomaz Dentinho	Executive Director	2011-2018	tomas.lc.dentinho@uac.pt				

## Mandates that finish in 2017

3	Patricio Aroca	PRSCO President	2016-2017	paroca@ucn.cl
5	Erendira Serrano	Prsco Representative	2015-2017	sesohi@hotmail.com
6	Neil Reid	NARSC President	2012-2017	neil.reid@utoledo.edu
10	Isabelle Thomas	Ersa Representative	2015-2017	isabelle@geog.ucl.ac.be
12	Carlos Azzoni	LARSA President	2015-2017	cazzoni@usp.br
15	Emmanouil Tranos	Councilor at large	2015-2017	e.tranos@bham.ac.uk
16	Daniel Griffith	Councilor at large	2015-2017	dagriffith@utdallas.edu
17	Tüzin Baycan	Councilor at large	2015-2017	tbaycan@itu.edu.tr

## **Annex 4: World Congress in Goa**

BUDGET			Quantitties	Price	Values
TOTAL REVENUES					101 510 €
Accompanying person			38	200 €	7 550 €
Regular Delegate – RSAI members	151	390 €	58 890 €		
Students Delegate – RSAI members	38	270 €	10 193 €		
Regular Delegate – non RSAI members			19	420 €	7 928 €
Students Delegate – non RSAI members			8	300 €	2 265 €
Accompanying person from Low Income	Country		26	50 €	1 321 €
Regular Delegate from Low Income Cour	ntry – RS	SAI members	227	50 €	11 325 €
Regular Delegate from Low Income Cour	ntry– nor	n RSAI members	15	60 €	906 €
Reduced Rate from Low Income Country	– non R	SAI members	8	150 €	1 133 €
TOTAL COST			101 509 €		
RSAI ex-ante margin (20% of Revenues)	1	20 302 €	20 302 €		
Renting of the venue			1	20 000 €	20 000 €
Secretariat Assistance (IRSA)			1	10 000 €	10 000 €
Welcome reception			529	4 €	2 116 €
Dinner			529	16 €	8 464 €
Lunches	3	times	1587	5 €	7 935 €
Coffee-break	6	times	3174	2 €	4 761 €
Transfers from Hotels	6	times	3174	1 €	3 174 €
Travel and accommodation of Key Speak	ers		2	3 000 €	6 000 €
Compensation for Key Speakers			2	3 000 €	6 000 €
Design of Communication materials			1	2 000 €	2 000 €
Printing of Posters and other marketing m	aterial fo	or the congress	1	1 500 €	1 500 €
Abstract book			529	10 €	5 290 €
Conference Kit			529	5 €	2 645 €
Conference Material			529	3 €	1 323 €
MARGIN FOR IRSA					0 €

RSAI Office support in organising the Congress	
RSAI REVENUES	20 302 €
20% Registrations	20 302 €
TOTAL RSAI COSTS	
Cost of Traveling of RSAI Secretariat to India (1 person)	2 980 €
Congress software registration site	2 500 €
Office supplies and equipment, stamps, carriage charges for RSAI	1 015 €
RSAI Margin	13 807 €

MARGINS BY PARTNER	VALUE
RSAI	13 807 €
IRSA	10 000 €
BITS	20 000 €

Congress Program Overview					
	Tuesday 29 May 2018	Wednesday 30 May 2018	Thursday 31 May 2018	Friday 1 June 2018	
Registration desk	14:00-18:00 – Goa Campus Venue	09:00-16:00	09:00-16:00	09:00-16:00	
09:00-10:30		Sessions on Forty under Forty Geoffrey Hewings (Chair) [09:00-10:30]	Regular and Special Sessions [09:00-10:30]	Regular and Special Sessions [09:00-10:30]	
10:30-11:00		Coffee break	Coffee break	Coffee break	
11:00-12:30	Workshops	Sessions on Forty under Forty Geoffrey Hewings (Chair) [11:00-12:30]	Semi Plenary Session of the Regional Science Academy Peter Nijkamp (Chair) [11:00-12:30]	ROUND TABLE  Social Integration and Global Citizenship Keynote speakers: Andres Rodriguez Pose (chair) ,Armida Alisjahbana, Rahmah Ismail, Abdul Shaban n India, Bina Agarwal and Anindita Datta [11:00-12:30]	
12:30-14:00		Lunch	LRPC Meeting (by invitation only)	RSAI Council  Lunch  Meeting (by invitation only)	
14:00-15:30		Regular and Special Sessions [14:00-15:30]  PRSCO Council Meeting (by invitation only)	Regular and Special Sessions [14:00-15:30]	Regular and Special Sessions [14:00-15:30]	
15:30-16:00	OPENING CEREMONY	Coffee break	Coffee break	Coffee break	
16:00-16:30	Bibek Debroy Government of India S. Puttaraju, Government of Goa Sunita Narain, Down to Earth Budy Resosudarmo, RSAI Debasis Patnaik BITS Sumana Bandyopadhyay IRSA	PLENARY SESSION Main Schools of Regional Science Roger Stough (chair), Henri de Groot, Vicente Royuela, Jouke van Dijk, Helmut	PLENARY SESSION "Regional Cooperation Policy" Keynote speakers: Kingsley Haynes (chair),	PLENARY SESSION "Space Programme and Geoinformatics: Policy and	
16:30-18:00	PLENARY SESSION Budy Resosudarmo (Chair) Janet E. Kohlhase Andrés Rodriguez Pose [16:30-18:00]	Jouke Van Dijk, Heimut Yabar, Trakeshi Mizunoya, Eduardo Haddad, Andrés Rodríguez-Pose, Kieran Donaghy	Iwan Azis, Steven G. Craig, and Joaquim Oliveira Martins [16:00-18:00]	<b>Practice"</b> 16:00-18:00]	
18:00-18:30	Welcome Reception				
18:30-20:00	[18:00-20:00]			Closing and Gala Dinner [18:00-22:00]	
20:00-22:00					

## Annex 5: Establishment of the Restructuring Committee of RSAI Application of RSAC

## Annex 5a: Letter of Yoshiro Higano regarding the application of RSAC

Dear my Colleagues:

Many thanks for your constructive and proactive discussion (especially by Bob, Kingsley, Lay, Peter, Patricio, Budy, and Antoine) related with my e-mail about proposal of RSAC to be affiliated to RSAI *directly*.

There are two issues which were confused and sometimes the one might be missed by views/opinions focusing on the other. Also, their time-span for argument should be originally different and are now complicated and confused.

- 1. What criterion and standard shall be applied for approval of an academic organization (regional/national basis, or international basis with specified countries, languages, etc. henceforth called as *applicant*) as an RSAI <u>Section</u>?
- 2. How RSAI should be re-organized in order to incorporate "sections" which are currently or will be outside of the current super-regions?

Views related with the issue 1:

- (i) In case applicant belongs to the territory of super-region, the standard/criterion prescribed by super-region shall be applied as RSAI Constitution says. So, in case applicant applies her affiliation to RSAI through super-region whose territory she belongs to, there should be no further arguments as far as RSAI Constitution is concerned. The matter shall be handled by super-region and affiliation is recommended to RSAI in case super-region has approved affiliation.
- (ii) In case applicant is *completely* outside of currently existing super-regions, RSAI shall take leadership with the matter. Even in that case, as far as the matter is related with currently existing super-region or RSAI Section in any sense and to whatever extent, RSAI shall listen to related super-region/RSAI Section while RSAI shall take leadership with the matter.

In this case, we must examine, for example, whether applicant will grow stably and sustainably by incorporating universities and institutes nation-widely if applicant propose a national section (say converge by applicant is argued as nation-wide); we must examine at first whether applicant has shown enough materials with which we can do the examination, e.g., directory of RSAI membership fee paying members in RSAI format, etc.

(iii) RSAC application shall be exceptional even if approved by RSAI. As I have already written in previous e-mail, RSAI can do anything once RSAI Council has decided although it might contradict to RSAI Constitution. In case of contradiction, impact (cost) could be of course huge although *expected* benefit could be huge like in RSAC case. While admitting this, RSAI shall be more careful about prescribing criteria/standards/conditions with which RSAI approve application by RSAC. This is must and shall be promptly done. In this case, apparently RSAI shall listen to PRSCO and Taiwan.

As far as we follow RSAI Constitution, RSAI shall treat RSAC as a 'group' in RSAI under the current Constitution of RSAI while RSAI offers and applies universal membership system for RSAC members as an exception. In my view, this special and specific case may bring more flexibility for RSAI in discussing the above issue 2.

Views related with the issue 2:

(a) As I have already written, basically RSAI and super-regions have been operated based on actual results (activities). Recent good example is LACRSA. The constituents have records to be active RSAI Sections of existing super-regions, say PRSCO and NARSC/RSAmerica, so long time. Always existing super-regions take important roles and shall not be neglected. In this sense, the relation between RSAI and super-regions/RSAI Sections in the above views (i), (ii), and (iii) shall be morphologically kept when RSAI strategically considers structural reorganization. Namely, we must realize that RSAI and super-regions are and shall be operated based on bottom-up system, too. (As far as I am correct, Indian RSA has been Membership Section of PRSCO since Bangalore and has a record of PRSCO activity.) More directly speaking, in case RSAI considers strategically

(b) As for RSAC case, if RSAI will approve her application to become an RSAI section based on criteria/standards that will be prescribed in a short span as stated in the above (iii), I dare to say once again it will be apparently against RSAI Constitution. While admitting this, RSAI should prepare for (re-) organization of super-regions, say future positioning of RSAC in super-region, so that it will not hurt already existing and active CRSA-T (Taiwan)

creation of a new super-region, RSAI shall listen to existing super-regions/RSAI Sections.

in PRSCO.

(c) In any way, RSAI shall be more careful with approval of RSAC as an RSAI Section (eve if approved, RSAC shall be a group in RSAI under the current Constitution of RSAI although it is specially treated with application of universal membership system) because it will affect our future strategy and may rather confine flexibility of

RSAI strategy.

(d) If terminology of reorganization is used as what means any grand transformation from the current bottom-up system of RSAI via revision of RSAI Constitution, it is not good idea. Considering historically, geographically, and politically complicated current structure of RSAI and further considering current and *future* situations RSAI must face, I do not believe we can have a better system. Rather, we should try to enhance the bottom-up system, which RSAI had to reach to after 40 years of confusion period while RSA (former RSAI) tried to establish a stable international organization) and RSAI has matured under umbrella of super-regions. For example, acquisition of NGO status by UN is one possible and effective way as Antoine and Roger suggested and tried to. In that case we must consider revision of RSAI Constitution and it will really have meaningfulness for us

strategically.

Best regards,

Yoshiro

Past President of RSAI and Member of LRPC

## Annex 5b: Letter of Peter Nijkamp regarding the application of RSAC

#### Dear Yoshiro:

Sorry for my late reply to your last email, but the medical situation of my wife was taking all my attention. Fortunately, she is improving now, although it will remain a source of concern. Hope things on your side are improving.

Back to the new future plans for RSAI. I just make a few remarks and suggestions based on my personal experience.

- 1. The current situation in our world with more globalisation of science requires a rethinking of the organizational structures of RSAI. Otherwise, we will become a marginalised group.
- 2. New sections in Africa (e.g. South Africa, Morocco, Capo Verde, Kenya) and in Asia (e.g., the Caucasian Section, India) have to find a home base; otherwise they will turn to other organizations.
- 3. It seems plausible to divide the global RSAI organisation into 5 continental supraregional groups: North America, Latin America, Europe, Africa, and Asia-Pacific.
- 4. Three of these groups are rather well established now: North America, Latin America and Europe.
- 5. Africa needs quite some attention, but has in principle a great potential if South Africa and Morocco take the lead here.
- 6. Asia-Pacific is a challenge, as this includes PRSCO, China (still to be included), India (on its way to be included) and the Western part of Asia (with much dynamics in Armenia, Georgia, Kazachstan, and the Gulf States).
- 7. I see a great perspective; PRSCO could be transformed into an Asia-Pacific RSAI supraregional group, incorporating the PRSCO countries including Australasia, as well as China, India, and the Western Asian countries. One thing is sure: India, Western Asia and most likely China will not join PRSCO.
- 8. From that perspective, I would suggest that you take the lead in building up an 'extended' PRSCO, which might become the biggest RSAI group in the world! You have the skills and support to do so.
- 9. Of course, such a transformation takes time and the current RSAI regulations are not so flexible. So, I wonder whether with all respect for current rules and arrangements (which are apparently outdated) we could develop a gradual transition toward a new RSAI model.
- 10. I am not so familiar with the Chinese situation, except that I know many excellent Chinese regional scientists who are very international and speak fluently English. If China joins RSAI (the earlier the better), we need to have a broad coverage of international scholars in China.

Well Yoshiro, I hope I have contributed to a positive discussion on the issues raised by you. I wish you all the best and hope to see you soon.

Peter Nijkamp

## Annex 5b: The Minutes of the Third Meeting of the 6th Standing RSAC Council

Oct.13, 2017 of RSAC

Time: 7:00pm-8:30pm, Friday, Oct.13, 2017,

Venue: Room 402, 1st Building of Midsummer Garden Hotel of Dalian, Liaoning. Province, PRC

Attendees: Members of the 6th Standing Councils

## Item 4 of the Meeting Agenda:

Mr. Xue, vice-president of the council, introduced matters related to the accession into Regional Science Association International (RSAI). In November 2016, the main leaders of the Regional Science Association of China (RSAC) had a discussion with Mr. Tomaz, secretary general of RSAI, around issues related to RSAC's accession into the RSAI, an initiative that has been highly welcomed by all the previous and current members of RSAI but has been postponed due to the issue of Taiwan. One of the work priorities of RSAC in the first half of 2017 is the preparation of application materials for RSAI membership which include the introduction of RSAC and its key milestone development. In May 2017, the Secretariat of RSAC filed a formal application to RSAI, together with the letters from Mr. Yang Kaizhong (president of RSAC) and Mr. Wei Houkai (chairman of RSAC) to express our intention to join RSAI. Later, we received a very positive response from RSAI who then sent us an invitation to attend its council meeting held at the University of Groningen in the second half of August this year. We accepted this invitation and a small delegation headed by Mr. Xue, vice-chairman of RSAC attended this meeting where a dedicated report on China's application was presented by the Chinese delegation.

The RSAI warmly welcomes the Regional Science Association of China to join its family, and hopes that RSAC can join as an independent entity, or reorganize the current PRSCO and form the Regional Science Association of Asia as a parallel organization. But we believe that the current biggest obstacle for RSAC to join RSAI is the issue of Taiwan. The Standing Council of RSAC has proposed three solutions to the Taiwan issue:

- (a). RSAC can join RSAI on the premise that Taiwan withdraws its membership from RSAI;
- (b). If the Regional Science Association of Taiwan is a member of the RSAI, then RSAC will not join;
- (c). By referencing the approach adopted by IGU, RSAI can help mediate and convince Taiwan to change its name into China-Taipei for the purpose of membership identity, and then RSAC can join RSAI.

But this approach is subject to the approval by the Taiwan Affairs Office of the State Council and the China Social Organization. We will rely on RSAI to communicate the above three proposals with the Taiwan side.

In a nutshell, at present, the fundamental issue is the Taiwan issue, as long as there is a solution to this, problems such as language and membership fee will be resolved as the next steps.

## **Annex 7: ERSA Note on Membership and Financial Relations between Sections**

2018 it must be possible to increase the revenues from the journals, because e.g. the Regional Studies Association makes a profit on their journals of about € 500.000.

In addition to that, RSAI revenues may increase if the number of members increases, while the benefits for ERSA are constant and not depending on the number of members. RSAI also intends to increase the revenues in 2018 via making profits from the bi-annual World Congress starting in 2018 with Goa, India. The World Congress may compete with supranational congresses and lower their profits. From the profit RSAI makes, it spends now annually € 30.000 on Nurturing New Talent, Building Bridges and Support for the Preparation of Research projects. Informally RSAI has agreed to pay each year about € 7.000 to support the ERSA Summerschool, but this is no guarantee: the Summerschool organizers need to apply each year to RSAI to get this amount. Until now, ERSA and the other supra regionals do not get a share of the profits.

Based on the above we can conclude that ERSA does not have an administration of its members. ERSA sections pay about € 4.750 to ERSA and € 20.000 to RSAI, which is four times as much as the sections to pay to ERSA via the € 250 fee per section. The profits of the RSAI from journals, more members and the World Congress all go to RSAI and these profits may increase in the near future with a new deal with the publishers and more revenues from members and the World Congress. The supranationals due not get a share of the profits of RSAI and do not have a formal say in how the revenues are spend.

Based on the above description of the current situation and expected future development the following issues can be discussed from the future perspective of ERSA (and other supra regionals) and lead to concrete proposals for discussion in the ERSA Council and with RSAI:

- 1. Does ERSA prefers to have its own membership administration in order to be able to know them and to communicate with them?
- 2. Does ERSA prefers to collect the memberships directly from the ERSA sections, instead of RSAI? The constitution of RSAI allows this in Article III. Membership, Section 1. *Members: Membership of RSAI is normally obtained through membership of a local Section. Membership shall be renewed annually by payment of dues. This may be through a capitation levied on a section and/or collected through one of the superregional organizations established by the Association.* NARSC as supraregional is already collecting the membership fees from its sections and pays this directly to RSAI.
- 3. Do the ERSA / RSAI members really benefit from the access to journals via RSAI or do they already have access via their own institutions? Can ERSA provide other services to its members?
- 4. Is it worthwhile to explore that ERSA can share in the profits that now go to RSAI, like profits from the journals, especially when more profitable conditions are obtained when the contract with a (new) publisher is revised?
- 5. Does ERSA like to propose to change the distribution of the membership fees in order to use a certain share for ERSA activities, like a Summerschool, instead of transferring the total amount to RSAI and having to apply to RSAI for support for the ERSA Summerschool?

Simulation of profits for ERSA based on 2.000 members and 20 sections under various assumptions lead to the following outcomes:

A. Present situation: ERSA collects € 250 per section: ERSA REVENUES: € 5.000

B. ERSA collects € 250 per section and € 10 per member: ERSA REVENUES: € 25.000

C. ERSA collects € 10 per member: ERSA REVENUES: € 20.000

D: ERSA collects € 10 per member, and donates € 5 to RSAI: ERSA REVENUES: € 10.000

E: ERSA collects € 12,50 per member: ERSA REVENUES: € 25.000

F: ERSA collects € 12,50 per member and € 6,50 to RSAI: ERSA REVENUES: € 12.500

## Appendix A. From the minutes of the EOC in February 2017:

Maciej Turala reports that the Nordic Section has submitted a motion for the EOC's attention. He reads the text submitted by Lars Westin prior to the meeting (on January 26th, 2017):

For us in the Sections it is confusing and time consuming both to be collective members in ERSA and individual members in RSAI. In all communications, we emphasise that ERSA is a part of the RSAI umbrella, the World of Regional Science Network.

As an individual member one is extremely weak in relation to RSAI. A fact that makes it difficult to organise a critique of the way RSAI works (their last attempts to organise global conferences is examples of some sort of

lack of sensitivity to processes in the international development). There is, moreover, the confusing membership list at RSAI in relation to membership records of annually paying members in the sections. There should be only one membership list - the one the sections are in control of. This list should be communicated to ERSA from the sections, in turn ERSA should communicate who its members are to RSAI.

Hence, ERSA should act as the voice of the European members against RSAI. Membership in RSAI should be a part of the membership in a section and thus in ERSA. RSAI should annually or biannually present a plan for its future work that could be discussed in ERSA, given an audit and related to the amount of the fee we offer RSAI. It is said that this solution needs a change of the by-laws of ERSA. Hence, I demand that a revision of the by-laws is initiated in the next EOC meeting to make such a change in the relation between ERSA and RSAI possible. All in all, to increase the efficiency of the global regional science society and to strengthen filed of regional science. Regards, Lars Westin, NRSA (Nordic section)

Maciej Turala proposes that a committee is set up and charged with a task of clarifying and streamlining the relationships between sections, ERSA and RSAI (in terms of membership fees, other payments etc.). He proposes that Lars Westin, as one who initiated the discussion, is made part of this committee

Jouke van Dijk proposes that the committee should consist of Jouke van Dijk, Andre Torre, Isabelle Thomas, Francisco Carballo-Cruz who will prepare a document outlining the current state of relations between sections, ERSA and RSAI. The paper is then to be circulated to the sections and further discussed in the ERSA Council meeting in August 2017.

The EOC approves the proposal of the President.

## Annex 8a: Letter to substitute Michaela Trippl by Daniel Griffith

To Prof. Budy Resosudarmo President of RSAI To all Members of RSAI Council MIlna, 7 December 2017 Dear President, dear members of RSAI Council, dear colleagues and friends,

I am writing you since I need your support on the following issue. One of the Editors of PiRS, Michaela Trippl, has been appointed in an important position at the Vienna University, and she therefore has to leave her role of Editor, since she feels she has not got the right time to devote to such position. Michaela leaves by the end of December 2017.

For this reason, we have to choose another person to replace Michaela for the next year. I wouldlike to suggest you the name of Daniel Griffith for the following reasons. His cv (in attachment) covers two necessities of the journal: i) to have the area of quantitative geography, where many papers come from, better covered than at present; ii) to have an additional editor based in the US.

The US is less covered than it should be, after Alessandra Faggian left the US and came back to Italy.

Daniel has a lot of editorial expertise. He has been Editor of Geographical Analysis, and being an RSAI Fellow, he is also very much engaged in RSAI activities. His seniority can also bring in new ideas and reflections, based on his expertise.

For this reason, I kindly ask you to support him to become a new editor of PiRS. Many thanks indeed for the attention to this matter. Roberta Capello Editor-in-chief of PiRS

## Annex 8b: CV of Daniel Griffith

## **VITAE**

Dr. Daniel A. Griffith (Version 1-24-2017)

#### **CURRENT BUSINESS ADDRESS**

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fax: (972) 429-4817

Academic specialty: spatial statistics; quantitative/urban/economic geography; applied statistics & statistical consulting; research proposal design

#### **EDUCATIONAL BACKGROUND**

- → Ph. D., geography, University of Toronto, 1978 (supervisor: L. Curry)
- → M. S., statistics, The Pennsylvania State University, 1985 (supervisor: J. K. Ord)
- → M. A., geography, Indiana University of Pennsylvania, 1972
- → B. Sc., mathematics, Indiana University of Pennsylvania, 1970
- → American Statistical Assn. Continuing Education (1994: "Spatial statistics for environmental and earth sciences data," "Skills to increase effectiveness in statistical consulting and collaboration"); ASA Syracuse Chapter workshop (1998: An introduction to generalized linear mixed models")
- → Certified Geographic Information Systems (GIS) Professional (GISP), 2009, The GIS Certification Institute (GISCI)

#### **EMPLOYMENT HISTORY**

- → affiliated professor, Dept. of Global Health, College of Public Health, U. of South Florida, 2015-2020
- → adjunct professor, Dept. of Resource Economics and Environmental Sociology, U. of Alberta, 2015-2021
- → summer school visiting lecturer (China-wide enrollment), LIESMARS, Wuhan University, 2011-2017
- → summer school visiting lecturer, Department of Mathematics and Statistics, University of Jyväskylä, 2006
- → University of Texas at Dallas, professor (Ashbel Smith Professor endowed chair), 2005-present
  - successful UTD 2012 (6-year) Periodic Performance Evaluation
  - Geospatial Information Sciences Assistant Unit Head, 2005-2015
- → University of Miami, professor (and Graduate Faculty member), 2003-2005
- → The University of Cambridge, Leverhulme visiting professor, Spring 2004
- → Syracuse University, professor, 1988-2003; Chair, Department of Geography, 1995-1997
- → Syracuse University, Interdisciplinary Program in Statistics faculty, 1991-2003
- → SUNY/Environmental Sciences and Forestry, adjunct professor, 1992-2003
- → Ministerio de Educación del Perú, consultant, 2000-01 [funded by the British ESRC]
- → Syracuse Research Corporation, consultant, 1998-99, 2003
- → University of Rome "La Sapienza," 1-month visiting professor, February 1995
- → Erasmus University, Rotterdam, visiting professor, Fall 1992
- → Syracuse University, Director, Interdisciplinary Program in Statistics, 1991-92 & 1993-95
- → NY State Program in Geographic Information and Analysis, Deputy Director, 1989-90
- → Oregon State University, Department of Statistics, visiting EPA Environmental Monitoring and Assessment Program research affiliate, summers of 1990-93

- → State University of New York at Buffalo, assistant professor, 1978-83; associate professor, 1983-1986; professor, 1986-88
- → Ryerson Polytechnical University, instructor, 1975-78
- → University of Toronto, teaching/research assistant, 1972-75
- → Indiana University of Pennsylvania, teaching/research assistant, 1970-72

## AWARDS, HONORS, AND PROFESSIONAL RECOGNITIONS

A1440	ırda	
Awa	2017	alasted a foreign follow Paval Society of Canada, Academics of Arts Humanities and Sciences
$\rightarrow$	2017	elected a foreign fellow, Royal Society of Canada: Academies of Arts, Humanities and Sciences
$\rightarrow$	2017	UCGIS Research Award
	2017	
		selected the SAMSG-GA plenary speaker for the 2017 Boston AAG meeting
$\rightarrow$	2016	International Spatial Accuracy Research Association (ISARA) Founder's Award "for substantial
	2015	and lasting contributions to the foundations of spatial accuracy."
	2015	nominated for 2016/17 Vice President, American Association of Geographers
$\rightarrow$	2015	elected fellow of the American Statistical Association (ASA):
	204.4	http://www.amstat.org/awards/fellowslist.cfm
	2014	Fulbright Senior Specialist reappointment (with invitation to the U. of Alberta, CA)
	2013/14	EPPS Outstanding Teaching Comet Award
	& 2014/15	
$\rightarrow$	2013	selected recipient, AAG Spatial Analysis and Modeling Specialty Group Outstanding Service
	221	Award
	2011	elected fellow of the American Association for the Advancement of Science (AAAS)
	2011	7 <sup>th</sup> Arthur Getis Lecture in Spatial Analysis, San Diego State University
	2010	AAG Distinguish Scholarship Honors recipient (noted online by the UTD News Center)
$\rightarrow$	2009	elected fellow of the Regional Science Association International (featured in <i>Richardson</i>
		Neighborsgo, 12/4/2009)
	2007	elected founding fellow of the Spatial Econometrics Association
$\rightarrow$	2006	Doctor of Science, honoris causa, from Indiana U. of Pennsylvania
$\rightarrow$	2005	Fulbright Senior Specialist (with invitation to the U. of Alberta, CA)
$\rightarrow$	2005	visiting researcher, Max Planck Institute for Demographic Research/Rostock (Germany)
$\rightarrow$	2005	(1st) Center for Ecosystems Science and Policy (CESP) fellow, U. of Miami
$\rightarrow$	2004	Leverhulme Trust (UK) visiting professorship to the U. of Cambridge
$\rightarrow$	2001	John Simon Guggenheim Memorial Foundation fellowship (http://www.gf.org/01fellow.html)
	2000	elected fellow of the New York Academy of Sciences
	1999	distinguished geographer of the year, Pennsylvania Geographical Society
	1998/9	American Statistical Association/USDA-NASS Research Fellow
$\rightarrow$	1997	"Second Prize, Best Software 1996" for <b>USA</b> , from Microcomputer Specialty Group, American
		Association of Geographers
	1995	(1st) Department of Geography outstanding alumnus, U. of Toronto
$\rightarrow$	1994	"First Prize, Best Software 1993" for <b>EXPLORHO</b> , from Microcomputer Specialty Group,
		American Association of Geographers
$\rightarrow$	1992/93	Fulbright Research Scholar to Canada
$\rightarrow$	1982	outstanding alumnus of Indiana U. of Pennsylvania
$\rightarrow$	1980	J. Warren Nystrom doctoral dissertation award, Assn. of American Geographers
Hon		
$\rightarrow$	2015	selected conference co-chair (with D. Josselin and S-J Bailly), Spatial Accuracy 2016
$\rightarrow$	2015	appointed to the AAG Publications Committee (2015-2018)
$\rightarrow$	2014	selected Steering Committee Chair, International Spatial Accuracy Research Association
-		(ISARA)
$\rightarrow$	2013	selected conference co-chair (with D. Dean), Geocomputation 2015
$\rightarrow$	2013	conference chair, Spatial Statistics 2013

$\rightarrow$	2013-14&16	appointed to the NSF "Geography and Spatial Sciences" Advisory Panel
$\rightarrow$	2011	appointed to the US EPA Federal Insecticide, Fungicide, and Rodenticide Act Scientific Advisory Panel (FIFRA SAP)
$\rightarrow$	2011	appointed to the Steering Committee, International Spatial Accuracy Research Association (ISARA); chair, medal awards panel
$\rightarrow$	2009-14	Editor, Geographical Analysis (2 terms)
$\rightarrow$	2009	appointed to the AAG Task Force to update the "Ethics Statement of the AAG"; Ethics, Place and Environment (2008) distributed to committee by AAG Executive Director, and was added to the revised bibliography for the "Ethics Statement of the AAG"
$\rightarrow$	2009	appointed an Advisory Committee member of the International Collaborative Center for Geo-computation Studies (ICCGS), Wuhan University
$\rightarrow$	2008-present	appointed to the Steering Committee, Commission on Modeling Geographical Systems, International Geographical Union (IGU)
$\rightarrow$	2004	elected a visiting fellow, Fitzwilliam College, U. of Cambridge
$\rightarrow$	2002-08	Associate Editor, Geographical Analysis
$\rightarrow$	2000-02/2016	appointed to the NSF "Methods, Measurement & Statistics" Advisory Panel
$\rightarrow$	1996/97	president, North American Regional Science Council
$\rightarrow$	1996	inducted into Sigma Xi (Syracuse Chapter)
$\rightarrow$	1994	elected to the New York Academy of Sciences
$\rightarrow$	1991	special guest of the Institute of British Geographers, by request of the Quantitative Methods Study Group, for the annual meeting.
$\rightarrow$	1972-76	U. of Toronto Open Fellowship
$\rightarrow$	1972	inducted into Kappa Delta Pi Honor Society in Education.
$\rightarrow$	1971/smr	Foreign Area Research Grant through Indiana U. of Pennsylvania
$\rightarrow$	1969	inducted into Gamma Theta Upsilon International Honorary Geography Society
$\rightarrow$	1967-70	PHEAA Scholarship
$\rightarrow$	1966-70	Hempfield Council PTA Scholarship

# Biographical Listings → 2017

Diog	apinear Listing	5
$\rightarrow$	2017	Albert Nelson Marquis Lifetime Achievement Award (from Marquis Who's Who)
$\rightarrow$	2015	listed in 33 <sup>rd</sup> edition of Marquis Who's Who in the World (also listed in the 19 <sup>th</sup> , 21 <sup>st</sup> , and
		26 <sup>th</sup> -32 <sup>nd</sup> editions, 2001, 2003,2008-2014)
$\rightarrow$	2015	listed in 12 <sup>th</sup> edition of Marquis <i>Who's Who in Science and Engineering</i> (also listed in 7 <sup>th</sup>
		edition, 2003, and 11 <sup>th</sup> edition, 2010).
$\rightarrow$	2015	listed in 70 <sup>th</sup> edition of Marquis <i>Who's Who in America</i> (also listed in the 55 <sup>th</sup> -69 <sup>th</sup>
		editions, 2000-2014)
$\rightarrow$	2015	listed in 42 <sup>nd</sup> edition of Marquis Who's Who in the South and Southwest (also listed in the
		36 <sup>th</sup> -41 <sup>st</sup> editions, 2009-2014)
$\rightarrow$	2010	listed in Who's Who in Social Sciences Education
$\rightarrow$	2003	listed in 6 <sup>th</sup> edition of Marquis <i>Who's Who in American Education</i> (also listed in 4 <sup>th</sup>
		edition, 1993).
$\rightarrow$	1994	listed in 4 <sup>th</sup> edition of <i>American Men and Women of Science</i>
$\rightarrow$	1993/94	listed an "International Man of the Year" in the International Biographical Centre's 16th
		edition of Men of Achievement
$\rightarrow$	1993,98	listed in 23 <sup>rd</sup> & 27 <sup>th</sup> Dictionary of International Biography
$\rightarrow$	1992	listed in 24th edition of Marquis Who's Who in the East.
$\rightarrow$	1969/70	elected to Who's Who Among Students in American Universities and Colleges.

## **Professional Recognitions**

2017-2020	appointed ASA representative to Section T (Information, Computing & Communications)
	of the AAAS
2016	AAG Scientific Committee Co-Chair for the Featured Theme "Uncertainty and context in
	geography and GIScience: advances in theory, methods, and practice"
2016	invited Program Committee member of IVAPP/VISIGRAPP 2017
	2016

$\rightarrow$	2016	supported participant in official statistics," convened at the U. of Missouri under the
,	2010	auspices of the Spatio-Temporal Statistics-NSF Census Research Network (STSN), 5/20-
		21/2016
$\rightarrow$	2016	appointed to the editorial board of the Elsevier book series entitled "Spatial
		econometrics and spatial statistics"
$\rightarrow$	2015	awarded an SFDA (special faculty development assignment), UTD
$\rightarrow$	2014	invited Program Committee member of Spatial Statistics 2015
$\rightarrow$	2014	invited Program Committee member of GIScience 2014
$\rightarrow$	2014 & 2017	invited nominator for the Vautrin Lud Prize
$\rightarrow$	2014	invited nominator for the Kyoto Prize
$\rightarrow$	2014	invited lecturer, 27th ERSA Summer School, July 2-9, Adam Mickiewicz University, Poznan, Poland
7	2013	invited session co-organizer, American Association for the Advancement of Science annual meeting, Boston, MA
$\rightarrow$	2013	invited session co-organizer, Joint Statistical Meetings, American Statistical Association
·		annual meeting, Montreal, CA
$\rightarrow$	2013	appointed to the <i>Annals</i> AAG editorial board (2014-17)
$\rightarrow$	2013	appointed to the Scientific Committee, Joint International Conference on Geospatial
		Theory, Processing, Modeling and Applications (ISPRS-IGU)
$\rightarrow$	2012	Environmental Geochemistry and Health, 30: 495-509 garnered the #1 spot on the
		BioMedLib ranking in my domain (4/12/12)
$\rightarrow$	2012-present	appointed reviewer panel member, Mathematical Reviews, American Mathematical
		Society
$\rightarrow$	2011-present	editorial board, Geo-spatial Information Science (GSIS)
$\rightarrow$	2011-present	editorial board, Spatial Demography
$\rightarrow$	2011	Korea Research Institute for Human Settlements (KRIHS) eInterview (library.krihs.re.kr/upload/publication/publication1/0000056284.pdf)
$\rightarrow$	2010	invited Program Committee member of the Spatial Econometrics Association 2010
	2010	meetings
$\rightarrow$	2010	International Regional Science Review, 34: 253-280 was in the "Top Ten" on the SSRN's
		Analytical Models, Forecasting & Simulation, and Outlooks & Forecasting downloads
$\rightarrow$	2010	AAG Nominations Committee nominee for AAG National Councilor (not elected)
$\rightarrow$	2009	Certified Geographic Information Systems (GIS) Professional (GISP)
$\rightarrow$	2008-2013	annual SAMSG plenary session co-organizer, Assoc. of American Geographers annual
		meetings (Boston; Las Vegas; Washington, DC; Seattle; New York City; Los Angeles;
		Tampa)
$\rightarrow$	2008	invited Scientific Committee member of the StatGIS'09 Conference
$\rightarrow$	2008	RSAI Panel session to commemorate the 20th anniversary of the publication of my
	2000	landmark book Advanced Spatial Statistics
$\rightarrow$	2008	invited Program Committee member of the 3 <sup>rd</sup> ICA Workshop on Geospatial Analysis and Modeling
$\rightarrow$	2008	J. of Regional Science, 48: 969-989 garnered the #1 spot on the SSRN's Analytical
	2008	Models, and in the "Top Ten" on the SSRN's Cross-Sectional Models, Spatial Models,
		Treatment Effects Models downloads
$\rightarrow$	2007-11	editorial board, J. of Stochastic Environmental Research & Risk Assessment
$\rightarrow$	2007-10	editorial board (Associate Editor), Letters in Spatial and Resource Sciences
$\rightarrow$	2004-present	editorial board, Journal of Geographical Systems
$\rightarrow$	2000-present	Article Review Board member, URISA J.
$\rightarrow$	2007	invited participant, "Science without boundaries," Institute Para Limes, The Netherlands
$\rightarrow$	2006	invited panelist, American Association of Geographers special session entitled "Status
		and trends in spatial statistics in geography," in honor of Honorary Geographer J. Keith
		Ord
$\rightarrow$	2006	review panelist, Small Business Innovation Research, National Science Foundation
$\rightarrow$	2005	(with M. Fischer) Regional Science Association dissertation competition judging

$\rightarrow$	2005	review panelist, special joint Divisions of Mathematical and Behavioral & Cognitive Sciences competition, National Science Foundation
$\rightarrow$	2001-03	AAG Article Award Committee member
$\rightarrow$	2001	invited workshop evaluator, ESRI's "geostatistical analyst"
$\rightarrow$	2001	invited nominator, John D. & Catherine T. MacArthur Foundation Fellows Program
$\rightarrow$	2000-02	Scientific Advisory Board member, 5 <sup>th</sup> International Symposium on Spatial Accuracy Assessment in a Natural Resources and Environmental Sciences
$\rightarrow$	2000	review panelist, "NSF/EPA Environmental Statistics," National Science Foundation
$\rightarrow$	2000	prolific regional science literature author [International Regional Science Review, 23: pp. 323-344].
$\rightarrow$	1998	review panelist, GEOID Networks of Centers of Excellence proposal, NSERC (Canada)
$\rightarrow$	1998	invited workshop participant, "Status and trends in spatial analysis (the Varenius project)" of the National Science Foundation National Center for Geographic Information and Analysis, Santa Barbara, California.
$\rightarrow$	1997	invited lecturer, "Spatial Genomics Workshop" convened by the NSF National Center for
		Geographic Information and Analysis, Castine, Maine.
$\rightarrow$	1996-97	Scientific Advisory Board member, 3 <sup>rd</sup> International Symposium on Spatial Accuracy Assessment in Natural Resources and Environmental Sciences
$\rightarrow$	1991	human geography citation centurion [ <i>Transactions</i> , Institute of British Geographers, 1116: 26-27]
$\rightarrow$	1991	review panelist, "Geosciences, Geography and Mathematical Sciences," National Science Foundation, May.
$\rightarrow$	1991	invited lecturer, "Initiative #7 experts meeting" of the National Science Foundation National Center for Geographic Information and Analysis, Castine, Maine.
$\rightarrow$	July 1989	National Science Foundation project selected for inclusion in an NSF funded 2-weeks National Center for Supercomputing Applications Education Workshop, U. of Illinois/Champaign-Urbana.
$\rightarrow$	1988	invited lecturer, "Initiative #1 experts meeting" of the National Science Foundation National Center for Geographic Information and Analysis, UCSB.
$\rightarrow$	1985,87	recipient, Experienced Faculty Travel Award, New York State/UUP
$\rightarrow$	1985-87	editorial board member, Annals, American Association of Geographers.
$\rightarrow$	1982-90	editorial board member, Geographical Analysis (3 terms).
$\rightarrow$	1983-86	member, NATO Scientific Affairs Division Advisory Board.

## Societal Research Recognitions

- → Flight #93 memorial design assessment quoted in *The Tribune-Review*, Thursday, July 20, 2006; Flight 93 memorial design critique for the National Parks Service, 2007 (with citations in the *Pittsburgh Post-Gazette*, and Johnstown *Tribune-Democrat*)
- → Syracuse pediatric lead poisoning project featured in *The Post-Standard*, Monday, December 2, 2002, front page & p. 4.
- → quoted in *The Post Standard* about counting crowds (Friday, November 23, 2001, pp. C1, C3)
- → Syracuse pediatric lead poisoning project included in Congressional briefing on GIS, January, 1997
- → Syracuse pediatric lead poisoning project maps included in the 1997-1998 Consolidated Plan for the City of Syracuse submitted to HUD, June
- → Syracuse pediatric lead poisoning project poster <u>invited</u> for displayed during the "Reuniting the Family Conference," Nottingham High School, November
- → Syracuse, NY, pediatric blood lead study featured in the *Syracuse Record*, the *SU Alumni News*, and the Syracuse *Herald-J*. (August 30, 1996), *Syracuse University Magazine* (Vol. 13, #1, Fall 1996, pp. 38-39)

## COURSES TAUGHT AND OTHER TEACHING ACTIVITIES

Courses taught at U. of Texas @ Dallas
GISC 7387 Research Design in GIS
GISC 7361/ECON 7311 Spatial Statistics/Spatial Econmetrics

GEOG 4380/GISC 6380 Spatial Organization and Concepts
ECON 6311/GISC 6311 Statistics for Economists/Mathematical Statistics for Geospatial Science
GISC 6389 Geographic Information Sciences Master Project
ECON 4396/GISC 6379 Urban Economics

## Courses taught at U. of Miami

Problems in Geography, Advanced Research Design in Geography, Advanced Spatial Statistics, Master's Thesis

## Courses taught at Syracuse U.

Economic Geography of North America, Introduction to Quantitative Methods in Geography, Senior Seminar in Geography (required of all majors), (with F. Csillag) Errors in spatial databases (at request of Cornell U. graduate students), (with R. Francis) Industrial Restructuring in North America, Industrial Location Theory, Multivariate Techniques in Geography, Readings in Multivariate Statistical Applications in Geography, Environmental Monitoring, Research Design in Geography, Spatial Statistics, Independent Study and Reading courses

Freshman Forum (CAS), Quantitative Methods for the Social Sciences (MAX)

Introduction to Statistics, Computing with SAS, Statistical Consulting, Independent Study (STT)

ARC/INFO Independent Study students' Departmental colloquium entitled "A GIS and spatial analysis of blood lead levels in Syracuse" (outcome of GEO 490 Independent Study); map display from study hangs in the SU College of Arts & Sciences Visitors Center

mentored (in conjunction with the SU Future Professoriate Program) Feng (Spring 95) in GEO 383, Anderson (Fall 95) in GEO 311, Layne (Spring 96, 97) in GEO 383

## Courses taught at SUNY/Buffalo

Introduction to Human Geography, Introductory Quantitative Methods, Multivariate Analysis for Geographers, Urban Geography, Industrial Geography

## Graduate Student Supervision

1. M. A./Ph. D. Committee member:

Barry Glick (Ph. D.) Chi Sham (Ph. D.) Peter Rogerson (Ph. D.) Carl Amrhein (Ph. D.) Gustav Lundberg (Ph. D.) Jose Armando Guevara (Ph. D.) Michael O'Neill (Ph. D.) Robert Andrle (Ph. D.) David Wong (Ph. D.) Susanna McKnight (Ph. D.) Nestor Vega (M. A.) Chi-Jien Lin (Ph. D.) Robine Lewis (Ph. D.) Bin Li (Ph. D.) Unryu Suganamu (Ph. D.) Irena Vasiliev (Ph. D.) Karen Dhanda (Ph. D.) Alberto Giordano (Ph. D.) Rick Annenberg (M. A.) Thomas Whitfield (M. A.) Michael Schramm (M. A.) Brenden McNeil (Ph. D.) Elvin Delgado (Ph. D.) Benjamin Jacob, Ph.D., Epidemiology and Public

Health

Monqiue Hernandez (Ph. D.)

Ted Beckstead (Ph.D.)

Ulemu Luhanga (Ph.D.)

Chien-Chou Chen (Ph.D.)

Yuhong Zhou (Ph. D.)

Adriana Troyo, Ph.D., Epidemiology and Public Health

Melissa Rura (Ph.D.)

Shaofei Chen (Ph. D.)

Ferrana Havewala (Pd. D.)

Christopher Franklin (Ph. D.)

2. M.A./M.S./Ph. D. supervised:

Joseph Schirippa (M. A.)

Peter Fellows (M. A.)

Claire Saint-Rossy (M. A.)

Marco Millones (M. A.)

Matthew Vincent (M. A.)

Cheryl Bradley (M. S.)

Yangyi Wu (M. S.) Timothy Brown (M. S.)

Shidi Wang (M. S.)

Akio Sone (Ph.D.)

Zhiqiang Zhang (Ph.D.)

Michael Feng (Ph. D.)

Janis Schubert (Ph.D.)

Michelle Markham (Ph.D.)

E Scott Morris (Ph.D.)

Parmanand Sinha (Ph.D.)

Monghyeon Lee (Ph.D., co with Y. Chun) Shidi Wang (Ph.D. /Economics, co with Kurt Beron)

Qing Luo (Ph.D., co with Huayi Wu; Wuhan U. MOU)

1994 Ph.D.: Akio Sone, Institute of Socio-Economic Planning, U. of Tsukuba (Japan) 1995 Ph.D.: M. Feng, Director (Oil and Gas Card Modeling), The Associates, Irving, TX 1998 Ph.D.: Zhiqiang Zhang, Arabesque Communications, Redwood Shores, CA 94065

2009 Ph.D.: Janis Schubert, postdoctoral appointment, Sandia Laboratories, Albuquerque, NM

2015 Ph.D.: Parmanand Sinha, postdoctoral appointment, U. of Tennessee 2015 Ph.D.: E Scott Morris, Research Data Scientist, Monsanto, St. Louis, MO

2016 Ph.D.: A. Hughes, post-doctoral fellow, UT Southwestern Medical Center, Dallas, TX

2016 Ph.D.: S. Wang, DataOne Global consulting firm, Dallas, TX

#### 3. M.S. in Applied Statistics

Jonathan Hancock

**Zhiqiang Zhang** 

4. Ph. D. outsider reader/external examiner for:

Mark Renee (School of Management, SUNY/Buffalo)

Raymond Florax (U. of Twente, Enschede, The Netherlands)

Sophonie Nshinyabakobeje (Forest Resources Management, SUNY/CES&F)

Mariano Duran (Forest Resources Management, SUNY/CES&F)

Harold D. Reynolds (Department of Geography, U. of Toronto)

Chijien Lin (Faculty of Social Sciences, U. of Joensuu, Finland)

Minfeng Deng (Dept. of Econometrics and Business Statistics, Monash U., Australia)

Roberto Patuelli (Dept. of Spatial Economics, Free University, Amsterdam, The Netherlands)

Monique Hernandez (Interdisciplinary Studies, U. of Miami)

Marco Millones (School of Geography, Clark U.)

## Student Supervisee Recognitions

- P. Doyle received a 1996 SU Chancellor's Award for Public Service for his work on our Syracuse, NY, pediatric blood lead study; he also received an NSF-REU supplement in support of this research
- P. Fellows received an SU Outstanding TA Award, an AAG (MM&QMSG) student paper award, and a 1999
   Syracuse Chapter of Sigma Xi award for graduate student research excellence and achievement

## **RESEARCH GRANT ACTIVITIES**

Principal Research Grant Support (\$7.4M +)

2017/20 (with K. Beron and Wenhua Di; co-PI) "Research Data Centers: Dallas-Forth Forth,"

National Science Foundation [SES-1664544; \$300,000].

2014/17 (with Y. Chun; in collaboration with George Mason U.) "Uncertainty in spatial data:

identification, visualization, and utilization," National Institutes of Health

[1R01HD076020-01A1; \$856,948]

2013/15 "Determining qualitative geographic sample size in the presence of spatial

autocorrelation." National Science Foundation [BCS-1262717; \$145,000]

2012/15 (co-PI with Y. Chun) "Advancing eigenvector spatial filter methodology: solving the

eigenvector selection and other related problems," National Science Foundation [BCS-

1229223; \$114,997]

2008/12	(co-PI with J. Murdoch, C. Eckel, and M. Caughy) "AOC: publicly driven investment,
	neighborhood change and household behavior," National Science Foundation (Human
	and Social Dynamics competition) [SES-0827350; \$1,000,178]
2007/08	(co-PI with M. Tiefelsdorf) "Training workshop in spatial filter modeling for
	environmental, health and social scientists and applied statisticians," National Science
2225/22	Foundation [SES 0724964; \$66,794]
2006/09	(investigator; with I. Vojnovic / Michigan State U., PI) "Exploring the social dynamics of
	accessibility, travel behavior, and physical activity by income/race, age, and gender: An inner-
	city/suburb comparison in the Detroit region," National Science Foundation (Human and Social
2004/00	Dynamics competition) [SES 0624263; \$643,964].
2004/08	(investigator; with Dr. John C. Beier/U. of Miami, PI) "Vector-borne disease control in urban environments," Interdisciplinary Exploratory Centers, National Institutes of Health
	[NIH 1 P20 RR20770-3; \$1,668,869]; see http://www.intervector.org/
2004/08	(with M. Tiefelsdorf) "Collaborative proposal: approximating eigensystems of matrices
2004/06	used in spatial analysis," Division of Mathematical Sciences and Methodology,
	Measurement & Statistics Programs, National Science Foundation [DMS-0611883;
	\$139,351+20,427 = \$159,778]
2004	(with R. Haining) Leverhulme Trust [\$40,100]
2002/08	"Geography-Based Exposure Assessment for Urban Metals," Geography & Regional
	Science/Methodology, Measurement & Statistics Programs, National Science Foundation
	[BCS-0221949/0400559/0552588; \$420,000 + \$7,500 SU/UM/UTD grant + \$11,725 NSF-
	REU].
2001/02	"Scientific visualization of spatial autocorrelation," John Simon Guggenheim Memorial
	Foundation [\$35,000]
2000/01	"Model-based small geographic area estimation: a comparison of two methodologies,"
	USDA-NASS Research Division [\$69,290]
1999/03	"An ordinary least squares (OLS) solution to handling spatial autocorrelation latent in
	georeferenced data," Geography & Regional Science/Measurement, Methods & Statistics
	Programs, National Science Foundation [BCS-9905213; \$203,876 + \$10,000 SU grant]
1999/00	(with G. Jacquez) supplement to "Biostatistical methods in environmental Epidemiology,"
4000	the National Cancer Institute [\$49,790]
1999	ASA/USDA-NASS Research Fellowship [\$69,290]
1996/7	(GIS consultant for W. Coplin and A. Merget) "Community Benchmarks: a program to develop indicators of community conditions," Alfred P. Sloan Foundation [grant of
	\$579,000].
1995/97	"Uncovering relationships between geo-statistical and spatial autoregressive modelling,"
1333/37	Geography & Regional Science/Methodology, Measurement & Statistics Programs,
	National Science Foundation [SBR-9507855; \$133,847 + \$5000 REU supplement].
1995	(GIS consultant for D. Armstrong and L. Wurst) "A unified site file and GIS data base for
	NYSDOT Region 3," New York State ISTEA Transportation Enhancement Program
	[\$200,000].
1993	U.S./Canada Fulbright fellowship [\$25,000]
1992/94	Collaborative project between SU and IBM [\$39,443 in equipment]
1992/94	Cornell Theory Center [advanced computing resources]
1992/93	National Science Foundation (Geography & Regional Science and Statistics & Probability
	Programs) [\$71,951 + \$10,000 SU match]
1991/93, 94/96	NATO Scientific Affairs Collaborative Research Grant Program (with R. Haining, U. of
	Sheffield, and G. Arbia, U. of Rome); Phases I and II [\$14,300]
1989/91	NYS Science & Technology Foundation (consortium comprised of Syracuse U., SUNY
	College of Environmental Science & Forestry, and Cornell U.) [\$200,000]; follow up (with
1000/00	M. Monmonier, A. Can, F. Csillag, and J. Mercer) [\$30,000]
1989/90	National Center for Supercomputing Applications (U. of Illinois) [advanced computing
1988/90	resources] National Science Foundation (Geography & Regional Science) [\$40,000]
1900/30	Mational Science Foundation (Geography & Regional Science) (340,000)

1987	Canadian Studies Program, Canadian Embassy (Academic Relations Office) [\$4,300]
1985	National Science Foundation (Geography & Regional Science) [\$10,000]
1985	Director, NATO Advanced Studies Institute (grant with R. Haining, U. of Sheffield)
	[\$35,000]
1981/2, 83/4, 85/7	NATO Research Grant for International Collaboration in Science (with R. Bennett,
	Cambridge U., and R. Haining, U. of Sheffield): Phases I, II and III [\$15,000]
1983/84	National Science Foundation (Geography & Regional Science) [\$34,700]
1979/80, 81/82	Director, NATO Advanced Studies Institutes (grant with, respectively, R. MacKinnon and
	A. Lea) [\$35,000; \$35,000]
Summer, 1979	American Association of Geographers Research Grant [\$400]

#### Minor Research Grant Support (\$21K +)

1998 & 2000, SU Geography Department/Maxwell Dean's Office [\$2500; \$2000]; 1994, SU/Center for Instructional Development [\$3000]; 1987, SUNY/Buffalo Office of Teaching Effectiveness [\$1000]; 1985 & 1987, Tenured Faculty Mini-grant (NY State/United University Professions) [\$750; \$1000]; 1985, VP-Research, SUNY/Buffalo [\$600]; 1982, Social Science Research Development Funds Grant, SUNY/Buffalo [\$1063]; 1982, Baldy Center for Law and Social Policy Faculty Fellowship, SUNY/Buffalo [\$2500]; 1981, SUNY Research Foundation Grant [\$3450]; 1981, National Science Foundation travel grant for ISOLDE 81 (Skodsborg, Denmark) [\$894 + room and board]; 1980, Baldy Center for Law and Social Policy Grant, SUNY/Buffalo [\$95]; 1978, OUPID Instructional Development Grant (with H. Jacobs) [\$600]; 1976, U. of Toronto/York U. Joint Program in Transportation Grant [\$2000]

## PUBLICATIONS, PRESENTATIONS, AND INVITED LECTURES

[2016: Web of Science H-index = 26; Scopus H-index = 26; Google Scholar H-index = 48 (32 since 2010)]

#### Books (10)

- 2017 (with J. Paelinck; 1<sup>st</sup>) *Morphisms for Quantitative Spatial Analysis*, Berlin: Springer-Verlag "Advanced Studies in Theoretical and Applied Econometrics Series," in press.
- 2013 (with Y. Chun; 2<sup>nd</sup>) *Spatial Statistics & Geostatistics*. Thousand Oaks, CA: SAGE.
- 2011 (with J. Paelinck; 1<sup>st</sup>) *Non-standard Spatial Statistics and Spatial Econometrics*, Berlin: Springer-Verlag "Advances in GIScience Series."
- 2003 Spatial Autocorrelation and Spatial Filtering: Gaining Understanding through Theory and Scientific Visualization, Berlin: Springer-Verlag.
- 1999 (with L. Layne; 1<sup>st</sup>) *A Casebook for Spatial Statistical Data Analysis: A Compilation of Analyses of Different Thematic Datasets*, NY: Oxford University Press.
- 1997 (with C. Amrhein; 1<sup>st</sup>) *Multivariate Statistical Analysis for Geographers*, Englewood Cliffs, NJ: Prentice Hall.
- 1993 Spatial Regression Analysis on the PC: Spatial Statistics Using SAS, Washington, DC: American Association of Geographers "Resource Publications in Geography Series."
- 1991 (with C. Amrhein; 1st) Statistical Analysis for Geographers, Englewood Cliffs, NJ: Prentice Hall.
- 1988 Advanced Spatial Statistics, Dordrecht: Martinus Nijhoff.
- 1987 *Spatial Autocorrelation: A Primer*, Washington, D. C.: Assn. of American Geographers" Resource Publications in Geography Series" [source for a GRASS-GIS program to calculate autocorrelation statistics].

## Edited Books (8)

- 2017 (with Y. Chun and D. Dean) *Advances in Geocomputation: Geocomputation 2015—The 13th International Conference*. Berlin: Springer, DOI 10.1007/978-3-319-22786-3
- 2016 (with J-S Bailly and D. Josselin) *Proceedings of Spatial Accuracy 2016*. Avignon, FR: UMR 7300 ESPACE, ISBN: 978-2-9105-4510-5.
- 1998 (with C. Amrhein and J.-M. Hurriot) Advances in Spatial Modelling and Methodology: Essays in Honor of Jean Paelinck, Dordrecht: Kluwer
- 1995 (with S. Arlinghaus) *Practical Handbook of Spatial Statistics*, Boca Raton, FL: CRC Press.
- 1990 Spatial Statistics: Past, Present, and Future, Ann Arbor, MI: Institute of Mathematical Geography.

- 1986 (with R. Haining) Transformations Through Space and Time, The Hague: Martinus-Nijhoff.
- 1983 (with A. Lea) Evolving Geographical Structures, The Hague: Martinus Nijhoff.
- 1981 (with R. MacKinnon) Dynamic Spatial Models, Alphen aan den Rijn: Sijthoff and Noordhoff.

## Monographs (2)

- 1994 (with J. Newman) *Eliminating Hunger in Africa: Technical and Human Perspectives on Food Allocation*, Maxwell School of Citizenship and Public Affairs, Syracuse University—reproduction permission given to Copyright Clearing House in 2000.
- 1989 Simulating K=3 Christaller Central Place Structures: An Algorithm Using a Constant Elasticity of Substitution Consumption Function, Ann Arbor, MI: Institute of Mathematical Geography.

#### Journal Guest Editorships (5)

- 2017 (with M-P. Kwan and Y. Chun) *IJGIS*, special issue entitled "Uncertainty and Context in Geography and GIScience."
- 2014 (with A. Stein and S. Stehman) *Spatial Statistics*, special issue entitled "Revealing Intricacies in Spatial and Spatio-Temporal Data: Papers from the Spatial Statistics 2013 Conference."
- 2007 (with G. Christakos) *J. of Stochastic Environmental Research & Risk Assessment*; special issue about medical geography as a science of interdisciplinary knowledge synthesis under conditions of uncertainty
- 2006 Geographical Analysis: special issue about Poisson modeling of georeferenced counts data
- 1992 (with C. Weiss and C. Duguay) *The Operational Geographer*, 10 (2): 2-3; special issue about spatial data analysis

Publications in Major Refereed Journals (66 single authored; 95 joint authored; \* denotes publication with student)

- 2018 \*(with H. Koo, Y. Chun; 3<sup>rd</sup>) Geovisualizing attribute uncertainty of interval and ratio variables: a framework and an implementation for vector data, *J. of Visual Languages and Computing*, forthcoming.
- 2018 \*(with H. Koo, Y. Chun; 3<sup>rd</sup>) Modeling positional uncertainty acquired through street geocoding, *International J. of Applied Geospatial Research*, 9: forthcoming.
- 2017 Uncertainty and context in geography and GIScience: reflections on spatial autocorrelation, spatial sampling, and health data, Annals of the AAG, forthcoming.
- \*(with M. Lee, Y. Chun; 3<sup>rd</sup>) Error propagation in spatial modeling of public health data: A simulation approach using pediatric blood lead level data for Syracuse, New York, *Environmental Geochemistry and Health*, in press.
- 2017 Some robustness assessments of Moran eigenvector spatial filtering, Spatial Statistics, 22: 155-179.
- 2017 (with M. Millones, J. Rogan, B. Turner II, B. Parmentier, R. Harris; 6<sup>th</sup>) Fire data as proxy for anthropogenic landscape change in the Yucatán, *Land*, *6*(3), 61; doi:10.3390/land6030061.
- \*(with T. Brown, J. Wood; 3<sup>rd</sup>) Using spatial autocorrelation analysis to guide mixed methods survey sample design decisions, *J. of Mixed Methods Research*, 11: 394-414; online in 2015.
- 2017 \*(with H. Koo, Y. Chun; 3<sup>rd</sup>) Optimal map classification incorporating uncertainty information, *Annals* of the American Association of Geographers, 107: 575-590.
- 2017 (with M. Fischer and J. LeSage; 1<sup>st</sup>) The spatial autocorrelation problem in spatial interaction modelling: a comparison of two common solutions, *Letters in Spatial and Resource Sciences*, 10: 75-86.
- 2017 (with D. Murakami, T. Yoshida, H. Seya, and Y. Yamagata; 4<sup>th</sup>) A Moran coefficient-based mixed effects approach to investigate spatially varying relationships, *Spatial Statistics*, 19: 68-89.
- 2016 (with B. Li and B. Becker; 2<sup>nd</sup>) Spatially simplified scatterplots for large raster datasets, *Geo-spatial Information Science*, 19: 81-93.
- 2016 (with Y. Chun; 1<sup>st</sup>) Spatial autocorrelation and uncertainty associated with remotely-sensed data, *Remote Sensing*, 8: 535; doi: 10.3390/rs8070535.
- 2016 (with Y. Chun; 1<sup>st</sup>) Evaluating eigenvector spatial filter corrections for omitted georeferenced variables, *Econometrics*, 4: 29; doi:10.3390/econometrics4020029.
- 2016 \*(with E. Morris, V. Thakar; 1<sup>st</sup>) Spatial autocorrelation and qualitative sampling: the case of snowball type sampling designs, *Annals* of the AAG, 106: 773-787.

- 2016 (with M. Helbich; 2<sup>nd</sup>) Spatially varying coefficient models in real estate: Eigenvector spatial filtering and alternative approaches, *Computers, Environment & Urban Systems*, 57: 1-11.
- 2016 \*(with Y. Chun, M. Lee, P. Sinha; 2<sup>nd</sup>) Eigenvector selection with stepwise regression techniques to construct eigenvector spatial filters, *Journal of Geographical Systems*, 18(1), 67-85.
- 2016 Spatial autocorrelation and art, *Cybergeo*, *European Journal of Geography*, Cybergeo anniversary Cross section, Online since 22 January 2016, connection on 23 January 2016, <a href="http://cybergeo.revues.org/27429">http://cybergeo.revues.org/27429</a>; DOI: 10.4000/cybergeo.27429.
- 2016 (with B. Jacob, R. Novak, L. Toe, M. Sanfo, K. Lassane, T. Lakwo, P. Habomugisha, M. Katabarwa, and T. Unnasch; 6<sup>th</sup>) Ecogeographically and non-ecogeographically forecasting discontinuous canopied simulium damnosum s.l. habitats by interpolating metrizable sub-mixel mean solar exoatmospheric quantum scalar irradiance where θ<sub>i</sub> is a zenith angle and diatomically etiolated xanthophylls with azimutually isotropic sources of chloroplastic carotenoid zeaxanthins spectrally extracted from a decomposed RapidEye™ red edge normalized difference vegetation index reference targeted biosignature: a case study in Burkina Faso and Uganda, 5: 152; DOI: 10.4172/2469-4134.1000152
- 2015 (with D. Murakami; 2<sup>nd</sup>) Random effects specifications in eigenvector spatial filtering: A simulation study *Journal of Geographical Systems*, 17: 311-331.
- 2015 On the eigenvalue distribution of adjacency matrices for connected planar graphs, *Quaestiones Geographicae*, 34(4): 39-60.
- 2015 Approximation of Gaussian spatial autoregressive models for massive regular square tessellation data, International J. of Geographical Information Science, 29: 2143-2173.
- 2015 (with Y. Chun; 1<sup>st</sup>) Spatial autocorrelation in spatial interactions models: geographic scale and resolution implications for network resilience and vulnerability, *Networks and Spatial Economics*, 15: 337-365.
- 2014 (with B. Jacob, D. Mendoza, M. Ponce, S. Caliskan, M. Moradi, E. Gotuzzo, and R. Novak; 7<sup>th</sup>) Pseudo R<sup>2</sup> probablity measures, Durbin Watson diagnostic statistics and Einstein summations for deriving unbiased frequentistic inferences and geoparameterizing non-zero first-order lag autocorvariate error in regressed multi-drug resistant tuberculosis time series estimators *American Journal of Applied Mathematics and Statistics* 2(5):252-301.
- 2014 (with Y. Chun; 1<sup>st</sup>) An eigenvector spatial filtering contribution to short range regional population forecasting, *Economics and Business Letters*, 3: 208-217.
- 2014 Reflections on the current state of spatial statistics education in the United States: 2014, *Geo-spatial Information Science*, 17: 229-235.
- 2014 (with Y. Chun; 2<sup>nd</sup>) A quality assessment of eigenvector spatial filtering based parameter estimates for the normal probability model, *Spatial Statistics*, 10: 1-11.
- 2014 (with B. Jacob, R. Novak, L. Toe, M. Sanfo, R. Tingueria, A. Pare, M. Noma, and T. Unnasch; 8<sup>th</sup>)
  Denoising a model employing automated bandwidth selection procedures and pre-whitened
  Euclidean-based quadratic surrogates in PROC ARIMA for optimizing asymptotic expansions and
  simulations of onchocerciasis endemic transmission zones in Burkina Faso, *J. of Public Health and Epidemiology*, 6(11): 347-389.
- 2013 (with B. Jacob, S. Caliskan, D. Gunawardena, and R. Novak; 2<sup>nd</sup>) 2013 Heuristically optimizing logarithmically transformed mean zero Gaussian vectors in PROC ARIMA using a random deviation from an intercept term and a normal frequency distributed Autoregressive Integrated Moving Average Time Series for forecasting malarial regressors in Uganda, *International J. of Geographic Information System*, 11(1): 1 143.
- 2013 (with B. Jacob, F. Krapp, M. Ponce, N. Zhang, S. Caliskan, E. Gotuzzo, and R. Novak; 5<sup>th</sup>) A Bayesian Poisson specification with a conditionally autoregressive prior and a residual Moran's coefficient minimization criterion for quantitating leptokurtic distributions in regression-based multi-drug resistant tuberculosis treatment protocols, *J. of Public Health and Epidemiology*, 5(3): 122-143.
- 2013 (with B. Jacob, R. de Alwiss, S. Caliskan, D. Gunawardena, and R. Novak; 4<sup>th</sup>) A random-effects regression specification using a local intercept term and a global mean for forecasting malarial prevalence, *American J. of Computational and Applied Mathematics*, 3(2): 49-67.
- 2013 Better articulating normal curve theory for introductory mathematical statistics students: power transformations and their back-transformations, *The American Statistician*, 67: 157-169; featured in *J. of Statistics Education*, 21 (3): 1-2: https://ww2.amstat.org/publications/jse/v21n3/bjornsdottirtb.pdf.

- 2013 Establishing qualitative geographic sample size in the presence of spatial autocorrelation, *Annals* of the American Association of Geographers, 103: 1107-1122.
- 2013 (with M. Fischer; 1<sup>st</sup>) Constrained variants of the gravity model and spatial dependence: Model specification and estimation issues, *J. of Geographical Systems*, 15: 291-317; reprinted in R. Patuelli and G. Arbia (eds.), *Spatial Econometric Interaction Modelling*, Chapter 3, pp. 37-66.
- 2013 (with B. Jacob, R. Novak, L. Toe, M. Sanfo, T. Lakwo, P. Habomugisha, M. Katabarwa, and T. Unnasch; 5<sup>th</sup>) Validation of a remote sensing model to identify *Simulium damnosum* s.l. breeding sites in sub-Saharan Africa, *PLoS Neglected Tropical Diseases*, 7(7): e2343; doi/10.1371/journal.pntd.0002342.
- 2013 Estimating missing data values for georeferenced Poisson counts, *Geographical Analysis*, 45: 259-284.
- 2013 (with Y. Chun, M. O'Kelly, B. Berry, R. Haining, and M-P. Kwan; 1<sup>st</sup>) *Geographical Analysis*: its first 40 years, *Geographical Analysis*, 45: 1-27.
- 2012 Selected challenges from spatial statistics for spatial econometricians, *Comparative Economic Research. Central and Eastern Europe*, 15(4): 71-85.
- 2012 (with B. Jacob, L.Toe, M. Sanfo, A. Afriyie, M. Ibrahim, and R. Novak; 6<sup>th</sup>) Quasi-likelihood techniques in a logistic regression equation for identifying *Simulium damnosum s.l.* larval habitats intra-cluster covariates in Togo. *Geo-spatial Information Science*, 15: 117-133.
- 2012 (with S. Arlinghaus; 1<sup>st</sup>) Urban compression patterns: fractals and non-Euclidean geometries inventory and prospect, *Quaestiones Geographicae*, 32(2): 21-28.
- 2012 Spatial statistics: a quantitative geographer's perspective, Spatial Statistics, 1: 3-15.
- 2012 (with R. Patuelli, N. Schanne, and P. Nijkamp; 3<sup>rd</sup>) Persistence of regional unemployment: application of a spatial filtering approach to local labor markets in Germany, *J. of Regional Science*, 52: 300-323.
- 2012 (with A. Hunt, D. Johnson, and S. Zitoon; 3<sup>rd</sup>) Citywide distribution of lead and other elements in soils and indoor dusts in Syracuse, NY, *Applied Geochemistry*, 27: 985-994.
- 2012 (with I. Vojnovic and J. Messina; 1<sup>st</sup>) Distances in residential space: implications from estimated metric functions for minimum path distances, *GlScience and Remote Sensing*, 49: 1-30.
- 2012 Space, time, and space-time eigenvector filter specifications that account for autocorrelation, *Estadística Española*, 54 (#177), 7-34.
- 2011 Positive spatial autocorrelation impacts on attribute variable frequency distributions, *Chilean J. of Statistics*, 2 (2): 3-28.
- 2011 \*(with U. Luhanga; 1<sup>st</sup>) Approximating the inertia of the adjacency matrix of a connected planar graph that is the dual of a geographic surface partitioning, *Geographical Analysis*, 43: 383-402.
- 2011 (with B. Jacob, J. Mwangangi, D. Gathings, C. Mbogo, and R. Novak; 2<sup>nd</sup>) A cartographic analysis using spatial filter logistic model specifications for implementing mosquito control in Kenya, *Urban Geography*, 32: 263-300.
- 2011 (with R. Patuelli, M. Tiefelsdorf, P. Nijkamp; 2<sup>nd</sup>) Spatial filtering and eigenvector stability: space-time models for German unemployment data, *International Regional Science Review*, 34: 253-280.
- 2011 (with Y. Chun; 2<sup>nd</sup>) Modeling network autocorrelation in space-time migration flow data: An eigenvector spatial filtering approach, Annals, AAG, 101: 523-536.
- 2011 \*(with M. Hernandez, R. Chowdhury, L. E Fleming; 4<sup>th</sup>) Colorectal cancer and socioeconomic status in Miami-Dade County: neighborhood-level associations before and after the Welfare Reform Act, *Applied Geography*, 31: 1019-1025.
- 2011 Visualizing analytical spatial autocorrelation components latent in spatial interaction data: an eigenvector spatial filter approach, *Computers, Environment and Urban Systems*, 35: 140-149.
- 2011 (with B. Jacob, J. Morris, E. Caamano, and R. Novak; 4<sup>th</sup>) Geomapping generalized eigenvalue frequency distributions for predicting prolific Aedes albopictus and Culex quinquefasciatus habitats based on spatiotemporal field-sampled count data, *Acta Tropica*, 117: 61-68.
- 2010 Modeling spatio-temporal relationships: retrospect and prospect, *J. of Geographical Systems*, 12: 111-123.
- 2010 (with B. Jacobs, F. Krapp, M. Ponce, E. Gotuzzo, and R. Novak; 5<sup>th</sup>). Accounting for autocorrelation in multi-drug resistant tuberculosis predictors using a set of parsimonious orthogonal eigenvectors aggregated in geographic space, *Geospatial Health*, 4: 201-217.
- 2010 (with B. Jacob, J. Mwangnagi, C. Mbogo, and R. Novak; 2<sup>nd</sup>). Uniform convergence of ergodic Markov chains using Gaussian quadratures in SAS PROC NLMIXED for calculating marginal likelihoods in space

- time-varying coefficients of urban *Anopheles gambiae s.l.* aquatic habitats, *Acta Paristology of China*, 14: 41-53.
- 2010 The Moran Coefficient for non-normal data, J. of Statistical Planning and Inference, 140: 2980-2990.
- 2010 Some simplifications for the Expectation-Maximization (EM) algorithm: the linear regression model case, *InterStat*, March article 2 (<a href="http://interstat.statjournals.net/YEAR/2010/abstracts/1003002.php">http://interstat.statjournals.net/YEAR/2010/articles/1003002.php</a>, <a href="http://interstat.statjournals.net/YEAR/2010/articles/1003002.pdf">http://interstat.statjournals.net/YEAR/2010/articles/1003002.pdf</a>), 23 pp.
- 2010 (with G. Arbia; 1<sup>st</sup>) Detecting negative spatial autocorrelation in georeferenced random variables, *International J. of Geographical Information Science*, 24: 417-437.
- 2010 (with G. Heuvelink; 2<sup>nd</sup>) Space-time geostatistics for geography: a case study of radiation monitoring across parts of Germany, *Geographical Analysis*, 42: 161-179.
- 2010 An analytical perspective on sporting events attendance: the 2007-08 US NCAA college bowl games, *Applied Geography*, 30: 203-209.
- 2009 (with J. Li and D. Wong; 3<sup>rd</sup>) Exploring and simulating the regularities in intra-urban population density structure, *Annals of GIS*, 15: 11-22.
- 2009 (with B. Jacob, E. Muturi, E. Caamano, J. Githure, and R. Novak; 2<sup>nd</sup>) A heteroskedastic error covariance matrix estimator using a first-order conditional autoregressive Markov simulation of ecological sampled Anopheles arabiensis aquatic habitat covariates, *Malaria Journal*, 8: 216, 16 pp. (online: doi:10.1186/1475-2875-8-216).
- 2009 (with D. Johnson, A. Hunt; 1<sup>st</sup>) The geographic distribution of metals in urban soils: the case of Syracuse, NY, *GeoJournal*, 74: 275-291.
- 2009 \*(with D. Johnson, A. Hunt, J. Hager, J. Brooks, <u>H. Stella-Levinsohn</u>, <u>A. Lanciki</u>, <u>R. Lucci</u>, <u>D. Prokhorova</u>, and <u>S. Blount</u>; 3<sup>rd</sup>) <u>Geographic patterns of non-carpeted floor dust loading in Syracuse, New York (USA) homes, *Environmental Geochemistry and Health*, 31: 353-363.</u>
- 2009 Modeling spatial autocorrelation in spatial interaction data: empirical evidence from 2002 Germany journey-to-work flows, *J. of Geographical Systems*, 11: 117-140.
- 2009 (with R. Haining and J. Law; 3<sup>rd</sup>) Modelling small area counts in the presence of overdispersion and spatial autocorrelation, *Computational Statistics & Data Analysis*, 53: 2923-2937.
- 2009 (with J. Paelinck; 1<sup>st</sup>) Specifying a joint space- and time-lag using a bivariate Poisson distribution, *J. of Geographical Systems*, 11: 23-36.
- 2009 (with B. Jacob, E. Muturi, E. Caamano, J. Shililu, J. Githure, and R. Novak; 2<sup>nd</sup>) <u>Describing Anopheles</u> <u>arabiensis</u> aquatic habitats in two riceland agro-ecosystems in Mwea, Kenya using a negative binomial regression model with a non-homogenous mean, *Acta Tropica*, 109 (1): 17-26.
- 2008 Ethical considerations in geographic research: what especially graduate students need to know, *Ethics, Place, and Environment,* 11: 237-253.
- 2008 A comparison of four model specifications for describing small heterogeneous space-time datasets: sugar cane production in Puerto Rico, 1958/59-1973/74, *Papers in Regional Science*, 87: 341-356.
- 2008 Spatial filtering-based contributions to a critique of geographically weighted regression (GWR), *Environment and Planning A*, 40: 2751-2769.
- 2008 (with M. Fischer; 2<sup>nd</sup>) Modelling spatial autocorrelation in spatial interaction data: An application to patent data in the European Union, *J. of Regional Science*, 48: 969-989.
- 2008 Geographic sampling of urban soils for contaminant mapping: how many samples and from where, *Environmental Geochemistry and Health*, 30: 495-509.
- \*(with A. Hunt, D. Johnson, J. Brooks; 4<sup>th</sup>) <u>Risk remaining from fine particle contaminants after vacuum cleaning of hard floor surfaces</u>, *Environmental Geochemistry and Health*, 30: 597-611.
- 2008 (with B. Jacob and R. Novak; 2<sup>nd</sup>) Decomposing malaria mosquito aquatic habitat data into spatial autocorrelation eigenvectors in a SAS/GIS<sup>®</sup> module, *Transactions in GIS*, 12: 341-364.
- 2008 (with B. Jacob, J. Gunter, E. Muturi, E. Caamano, J. Shililu, J. Githure, J. Regens, and R. Novak; 2<sup>nd</sup>) A spatial filtering specification for an auto-negative binomial model of *Anopheles arabiensis* aquatic habitat, *Transactions in GIS*, 12: 515-539.
- 2008 (with B. Berry and M. Tiefelsdorf; 2<sup>nd</sup>) From spatial analysis to geospatial science, *Geographical Analysis*, 40: 229-238.
- 2007 Spatial structure and spatial interaction: 25 years later, The Review of Regional Studies, 37, #1: 28-38.
- 2007 \*(with M. Millones, M. Vincent, D. Johnson, and A. Hunt; 1<sup>st</sup>) Impacts of positional error on spatial regression analysis: A case study of address locations in Syracuse, NY, *Transactions in GIS*, 11: 655-679.

- 2007 (with W. Thayer and G. Diamond; 2<sup>nd</sup>) Geography of asbestos contamination near the World Trade Center site, *Stochastic Environmental Research & Risk Assessment*, 21: 461-471.
- 2007 (with M. Tiefelsdorf; 2<sup>nd</sup>) Semi-parametric filtering of spatial autocorrelation: the eigenvector approach, *Environment and Planning A*, 39: 1193-1221.
- 2007 (with D. Wong; 1<sup>st</sup>) Modeling population density across major U.S. cities: a polycentric spatial regression approach, *J. of Geographical Systems*, 9: 53-75.
- 2007 (with J. Paelinck; 1<sup>st</sup>) An equation by any other name is still the same: on spatial statistics and spatial econometrics, *Annals of Regional Science*, 41: 209-227.
- 2006 (with A. Hunt and D. Johnson; 3<sup>rd</sup>) Mass transfer of soil indoors by track-in on footwear, *The Science of the Total Environment*, 370: 360-371.
- 2006 Hidden negative spatial autocorrelation, J. of Geographical Systems, 8: 335-355.
- 2006 (with P. Peres-Neto; 1<sup>st</sup>) Spatial modeling in ecology: the flexibility of eigenfunction spatial analyses, *Ecology*, 87: 2603-2613.
- 2006 (with R. Haining; 1<sup>st</sup>) Beyond mule kicks: the Poisson distribution in geographical analysis, *Geographical Analysis*, 38: 123-139.
- 2006 Assessing spatial dependence in count data: Winsorized and spatial filter specification alternatives to the auto-Poisson model, *Geographical Analysis*, 38: 160-179.
- 2005 (with B. Jacob, K. Arheart, C. Mbogo, A. Githeko, J. Regens, J. Githure, R. Novak, and J. Beier; 3<sup>rd</sup>) Evaluation of environmental data for identification of *anopheles* (diptera: culicidae) aquatic larval habitats in Kisumu and Malindi, Kenya, *J. of Medical Entomology*, 42: 751–755.
- 2005 Effective geographic sample size in the presence of spatial autocorrelation, *Annals*, American Association of Geographers, 95: 740-760.
- 2005 A comparison of four analytical disease mapping techniques as applied to West Nile Virus in the coterminous United States, *International Journal of Health Geographics*, 4: 18 (14 pp).
- 2005 \*(with D. Johnson, J. Hager, A. Hunt, S. Blount, S. Ellsworth, J. Hintz, R. Lucci, A. Mittiga, D. Prokhorova, L. Tidd, M. Millones, and M. Vincent; 4<sup>th</sup>) Field methods for mapping urban metal distributions in house dusts and surface soils of Syracuse, NY, USA, *Science in China* (Series C: Life Sciences), 48 (supplement): 192-199.
- 2004 Faster maximum likelihood estimation of very large spatial autoregressive models: an extension of the Smirnov-Anselin result, *J. of Statistical Computation and Simulation*, 74: 855-866.
- 2004 Distributional properties of georeferenced random variables based on the eigenfunction spatial filter, *J. of Geographical Systems*, 6: 263-288.
- 2004 A spatial filtering specification for the auto-logistic model, Environment and Planning A, 36: 1791-1811.
- 2004 Extreme eigenfunctions of adjacency matrices for planar graphs employed in spatial analyses, *Linear Algebra & Its Applications*, 388: 201-219.
- 2003 \*(with D. Wong and T. Whitfield; 1<sup>st</sup>) Exploring relationships between the global and regional measures of spatial autocorrelation, *J. of Regional Science*, 43: 683-710.
- \*(with W. Thayer, P. Goodrum, G. Diamond and J. Hassett; 2<sup>nd</sup>) Application of geostatistics to risk assessment, *Risk Analysis: An International Journal*, 23: 945-960.
- 2003 Using estimated missing spatial data with the 2-median model, *Annals of Operations Research*, 122: 233-247.
- 2003 (with G. Arbia and R. Haining; 2<sup>nd</sup>) Spatial error propagation when computing linear combinations of spectral bands: the case of vegetation indices, *Environmental and Ecological Statistics*, 10: 375-396; reply to commentary, 399-400.
- 2002 The geographic distribution of soil lead concentration: description and concerns, *URISA Journal*, 14: 5-15.
- 2002 A spatial filtering specification for the auto-Poisson model, Statistics & Probability Letters, 58: 245-251.
- 2002 Modeling spatial dependence in high spatial resolution hyperspectral data sets, *J. of Geographical Systems*, 4: 43-51.
- 2002 (with A. Getis; 2<sup>nd</sup>) Comparative spatial filtering in regression analysis, *Geographical Analysis*, 34: 130-140.
- 2000 Eigenfunction properties and approximations of selected incidence matrices employed in spatial analyses, *Linear Algebra & Its Applications*, 321: 95-112.

- 2000 \*(with Z. Zhang; 2<sup>nd</sup>) Integrating GIS components and spatial statistical analysis in DBMS, *International J. of Geographical Information Science*, 14: 543-566.
- 2000 A linear regression solution to the spatial autocorrelation problem, *J. of Geographical Systems*, 2: 141-156.
- 1999 \*(with Z. Zhang; 1<sup>st</sup>) Computational simplifications needed for efficient implementation of spatial statistical techniques in a GIS, *J. of Geographic Information Science*, 5: 97-105.
- 1999 (with G. Arbia and R. Haining; 2<sup>nd</sup>) Error propagation modelling in raster GIS: addition and ratioing operations, *Cartography & Geographic Information Systems*, 26: 297-315.
- 1999 Statistical and mathematical sources of regional science theory: map pattern analysis as an example, Papers in Regional Science, 78: 21-45.
- 1999 (with M. Tiefelsdorf and B. Boots; 2<sup>nd</sup>) A variance stabilizing coding scheme for spatial link matrices, *Environment and Planning A*, 31: 165-180.
- 1998 \*(with P. Doyle, D. Wheeler, and D. Johnson; 1<sup>st</sup>) A Tale of two swaths: urban childhood blood lead levels across Syracuse, NY, *Annals*, Assn. of American Geographers, 88: 640-665.
- 1998 (with F. Lagona; 1<sup>st</sup>) On the quality of likelihood-based estimators in spatial autoregressive models when the data dependence structure is misspecified, *J. of Statistical Planning and Inference*, 69: 153-174.
- 1998 Provincial-level spatial statistical modelling of the change in per capita disposable family income in Spain, 1975-1983, *Cybergeo*, http://cybergeo.revues.org/385
- 1998 (with G. Arbia and R. Haining; 2<sup>nd</sup>) Error propagation modelling in raster GIS: overlay operations, *International J. of Geographical Information Systems*, 12: 145-167.
- 1997 \*(with Z. Zhang; 2<sup>nd</sup>) Developing user-friendly spatial statistical analysis modules for GIS: an example using ArcView, *Computers, Environment and Urban Systems*, 21: 5-29.
- 1997 Using estimated missing spatial data in obtaining single facility location-allocation solutions, *l'Espace Géographique*, 26: 173-182.
- 1996 Spatial autocorrelation and eigenfunctions of the geographic weights matrix accompanying georeferenced data, *The Canadian Geographer*, 40: 351-367.
- 1996 \*(with D. Johnson and K. McDade; 3<sup>rd</sup>) Seasonal variation in pediatric blood lead levels in Syracuse, NY, *Environmental Geochemistry and Health*, 18 (#2): 81-88.
- 1995 \*(with A. Sone; 1<sup>st</sup>) Trade-offs associated with normalizing constant computational simplifications for estimating spatial statistical models, *J. of Statistical Computation and Simulation*, 51: 165-183.
- 1994 (with R. Haining and G. Arbia; 1<sup>st</sup>) Heterogeneity of attribute sampling error in spatial data sets, *Geographical Analysis*, 26: 300-320.
- 1994 (with S. DeGloria and L. Herrington; 1<sup>st</sup>) Characterizing geographic information and analysis needs in New York State: an overview and assessment, *Cartography and Geographic Information Systems*, 21: 69-80.
- 1993 (with F. Csillag; 1<sup>st</sup>) Exploring relationships between semi-variogram and spatial autoregressive models, *Papers in Regional Science*, 72: 283-296.
- 1993 \*(with C. Cordy; 2<sup>nd</sup>) Efficiency of least squares estimators in the presence of spatial autocorrelation, *Communications in Statistics*, Series B, 22: 1161-1179.
- 1993 Advanced spatial statistics for analyzing and visualizing geo-referenced Data, *International J. of Geographical Information Systems*, 7: 107-123.
- 1992 A spatially adjusted N-way ANOVA model, Regional Science & Urban Economics, 22: 347-369.
- 1992 Simplifying the normalizing factor in spatial autoregressions for irregular lattices, *Papers in Regional Science*, 71: 71-86.
- 1992 Teaching spatial statistics to geographers using MINITAB, *J. of Geography in Higher Education*, 16: 45-59.
- 1992 What is spatial autocorrelation? reflections on the past 25 years of spatial statistics, *l'Espace Géographique*, 21: 265-280.
- 1992 (with Goodchild, Haining, Wise, et al.) Integrating GIS and spatial data analysis: problems and possibilities, *International J. of Geographical Information Systems*, 6: 407-423.
- 1990 (with V. Tikunov; in Russian; 2<sup>nd</sup>) Comparative analysis of algorithms for modelling typological maps contents, *Geodesy and Cartography*, No. 8, 39-43.
- 1990 Supercomputing and spatial statistics: a reconnaissance, The Professional Geographer, 42: 481-492.

- 1989 (with R. Haining and R. Bennett; 1<sup>st</sup>) Statistical analysis of spatial data in the presence of missing observations: an application to urban census data, *Environment & Planning A*, 21: 1511-1523.
- 1989 (with R. Haining and R. Bennett; 2<sup>nd</sup>) Maximum likelihood estimation with missing spatial data and with an application to remotely sensed data, *Communications in Statistics*, 18: 1875-1894.
- 1989 Pure error and lack-of-fit regression diagnostics in the presence of spatial dependence, *Sistemi Urbani*, (#2) 139-151.
- 1988 (with L. Anselin; 2<sup>nd</sup>) Do spatial effects really matter in regression analysis?, *Papers* of the Regional Science Association, 65: 11-34.
- 1988 Estimating spatial autoregressive model parameters with commercial statistical packages, *Geographical Analysis*, 20: 176-186.
- 1987 Toward a theory of spatial statistics: another step forward, Geographical Analysis, 19: 69-82.
- 1987 Teaching spatial autocorrelation by simulation, *J. of Geography in Higher Education*, 11: 143-153; *reprinted* in D. Unwin and C. Wood (eds.), *Readings in Computer Assisted Learning in Geography*. Leicester, UK: Computers in Teaching Initiative Center for Geography, 1990, pp. 155-165.
- 1986 \*(with M. O'Neill, W. O'Neill, L. Leifer, R. Mooney; 1<sup>st</sup>) Shape indices: useful measures or red herrings?, *The Professional Geographer*, 38: 263-270.
- 1986 Central place structures using constant elasticity of consumption demand cones: part I, the infinite plane, *Economic Geography*, 62: 74-84.
- 1985 An evaluation of correction techniques for boundary effects in spatial statistical analysis: contemporary methods, *Geographical Analysis*, 17: 81-88.
- 1984 (with R. Bennett and R. Haining; 3<sup>rd</sup>) The problem of missing data on spatial surfaces, *Annals*, American Association of Geographers, 74: 138-156.
- 1984 Re-examining the question "Are locations unique?", Progress in Human Geography, 8: 82-94.
- 1984 (with R. Bennett and R. Haining; 2<sup>nd</sup>) A statistical approach to the problem of missing spatial data using a first-order Markov model, *The Professional Geographer*, 36: 338-345.
- 1983 The boundary value problem in spatial statistical analysis, J. of Regional Science, 23: 377-387.
- 1983 (with R. Haining and R. Bennett; 2<sup>nd</sup>) Simulating Two dimensional autocorrelated surfaces, *Geographical Analysis*, 15: 247-255.
- 1983 \*(with C. Amrhein; 1<sup>st</sup>) An evaluation of correction techniques for boundary effects in spatial statistical analysis: traditional methods, *Geographical Analysis*, 15: 352-360.
- 1982 Dynamic characteristics of spatial economic systems, *Economic Geography*, 58: 178-196.
- 1982 Geometry and spatial interaction, Annals, American Association of Geographers, 72: 332-346.
- 1982 A generalized Huff model, Geographical Analysis, 14: 135-144.
- 1981 Modelling urban population in a multi-centered city, J. of Urban Economics, 9: 298-310.
- 1981 Evaluating the transformation from a monocentric to a polycentric city, *The Professional Geographer*, 33: 189-196.
- 1980 (with K. Jones; 1<sup>st</sup>) Explorations into the relationship between spatial structure and spatial interaction, *Environment and Planning A*, 12: 187-201.
- 1980 Towards a theory of spatial statistics, *Geographical Analysis*, 12: 325-339.
- 1979 Urban dominance, spatial structure and spatial dynamics: some theoretical conjectures and empirical implications, *Economic Geography*, 55: 95-113.
- 1978 A spatially adjusted ANOVA model, Geographical Analysis, 10: 296-301.
- 1976 (with E. Sheppard and L. Curry; 2<sup>nd</sup>) A final comment on mis-specification and autocorrelation in those gravity parameters, *Regional Studies*, 10: 337-339.
- 1976 Spatial structure and spatial interaction: a review, Environment and Planning A, 8: 731-740.
- 1975 (with L. Curry and E. Sheppard; 2<sup>nd</sup>) Those gravity parameters again, *Regional Studies*, 9: 289-296.
- 1975 A note on spatial autocorrelation, *The Professional Geographer*, 27: 470-474.

## *Invited encyclopedia entries* (12 single authored; 5 joint authored)

2017 (with Chun; 2<sup>nd</sup>) Measuring spatial dependence, in D. Richardson, N. Castree, M. Goodchild, A. Kobayashi, W. Liu, and R. Martson (eds.), *International Encyclopedia of Geography*. NY: Wiley, pp. 1-7. DOI: 10.1002/9781118786352.wbieg0200

- 2017 Spatial Weights, in D. Richardson, N. Castree, M. Goodchild, A. Kobayashi, W. Liu, and R. Martson (eds.), *International Encyclopedia of Geography*. NY: Wiley, pp. 1-14. DOI: 10.1002/9781118786352.wbieg0850
- 2016 "Spatial statistics and geostatistics: basic concepts," in Shekhar, S., H. Xiong, and X. Zhou, Encyclopedia of GIS (2<sup>nd</sup> ed.). Cham, Switzerland: Springer, pp. 1-16. DOI 10.1007/978-3-319-23519-6\_1650-1
- 2016 (with Getis; 1<sup>st</sup>) "Spatial filtering," in Shekhar, S., H. Xiong, and X. Zhou, *Encyclopedia of GIS* (2<sup>nd</sup> ed.). Cham, Switzerland: Springer, pp. 1-14. DOI 10.1007/978-3-319-23519-6\_1523-1
- 2016 "Spatial autocorrelation," in *Oxford Bibliographies in Geography*, Barney Warf (ed.). New York: Oxford University Press, DOI: 10.1093/OBO/9780199874002-0128.
- "Geographic Information Systems," in Wiley StatsRef: Statistics Reference Online (3<sup>rd</sup> revised version), <a href="http://onlinelibrary.wiley.com/doi/10.1002/9781118445112.stat03430.pub2/full">http://onlinelibrary.wiley.com/doi/10.1002/9781118445112.stat03430.pub2/full</a>, pp. 1-8; in S. Kotz, C. Read, N. Balakrishnan, and B. Vidakovic (eds.), Encyclopedia of Statistical Sciences, 2<sup>nd</sup> ed., Vol. 4, 2006, pp. 2764-2771 (2<sup>nd</sup> revised version); in S. Kotz, C. Read, and D. Banks (eds.), updated volumes of Encyclopedia of Statistical Sciences, Vol. 3, NY: Wiley, 1999, pp. 268-269 (original version).
- 2014 (with Chun; 1<sup>st</sup>) Spatial Autocorrelation and Spatial Filtering, in M. Fischer and P. Nijkamp (eds.), *Handbook of Regional Science*. Berlin: Springer-Verlag, pp. 1477-1507.
- 2010 "Error propagation," in B. Warf (ed.), *Encyclopedia of Geography*. Thousand Oaks, CA: SAGE, pp. 1011-1012.
- 2010 "Spatial filtering," Chapter B.5 in A. Getis and M. Fischer (eds.), *Handbook of Applied Spatial Analysis*. Berlin: Springer-Verlag, pp. 301-318.
- 2010 (with M. Rura, 2<sup>nd</sup>) "Spatial statistics in SAS," Chapter A.2 in A. Getis and M. Fischer (eds.), *Handbook of Applied Spatial Analysis*. Berlin: Springer-Verlag, 43-52.
- "Methods: spatial autocorrelation," in R. Kitchin and N. Thrift (eds.), *International Encyclopedia of Human Geography*. NY: Elsevier, pp. 396-402.
- 2009 "Methods: spatially autoregressive models," in R. Kitchin and N. Thrift (eds.), *International Encyclopedia of Human Geography*. NY: Elsevier, pp. 308-316
- 2008 "Nonstationarity," in K. Kemp (ed.), *Encyclopedia of Geographic Information Science*. Thousand Oaks, CA: SAGE, pp. 319-320.
- 2008 "Regionalized variables," in K. Kemp (ed.), *Encyclopedia of Geographic Information Science*. Thousand Oaks, CA: SAGE, pp. 363-365.
- 2008 "Spatial filtering," in K. Kemp (ed.), *Encyclopedia of Geographic Information Science*. Thousand Oaks, CA: SAGE, pp. 413-415.
- 2005 "Spatial autocorrelation," in K. Kempf-Leonard (ed.), *Encyclopedia of Social Measurement*, Vol. 3. San Diego, CA: Academic Press (Elsevier), pp. 581-590.
- 2005 (with A. Lea) "Locational decision making," in K. Kempf-Leonard (ed.), *Encyclopedia of Social Measurement*, Vol. 2. San Diego, CA: Academic Press (Elsevier), pp. 559-575.

## Contributions to and/or Chapters in Books (15 single authored; 10 joint authored)

- 2017 (with M. Lee and Y. Chun; 3<sup>rd</sup>) The urban hierarchy and spatial relationships between poverty and cancer: does location error matter? in I. Vojnovic, A./ Pearson, A. Gershim, A. Allen, and G. DeVerteuil (ed.), *Handbook of Global Urban Health*, London: Routledge, in press.
- 2016 (with R. Patuelli, G-J Linders, R. Metulini; 4<sup>th</sup>) The space of gravity: spatial filtering estimation of a gravity model for bilateral trade, in R. Patuelli and G. Arbia (eds.), *Spatial Econometric Interaction Modelling*, Chapter 8, pp. 145-169. Berlin: Springer; *Working Paper* DSE N° 1022, Department of Economics, Università de Bologna.
- 2015 (with D. Wong and Y. Chun; 1st) Uncertainty related research issues in spatial analysis, in *Uncertainty Modelling and Quality Control for Spatial Data*, W. Shi, B. Wu, and A. Stein (eds.), Boca Raton, FL: Taylor & Francis/CRC Press, pp. 3-11.
- 2015 Chapter 12: The geographic distribution of metal dust exposure in Syracuse, NY, in *Spatial Analysis in Health Geography*, P. Kanaroglou, E. Delmelle, and A. Páez (eds.), Surrey, UK: Ashgate, pp. 197-217.
- 2015 (with Chun; 1<sup>st</sup>) Spatial analysis of census mail response rates: 1990-2010. In *Space-Time Integration in Geography and GIScience: Research Frontiers in the US and China*, edited by M-P. Kwan, D. Richardson, D. Wang, and C. Zhou. NY: Springer, pp. 145-156.

- 2012 (with G. Heuvelink, T. Hengl and S. Melles; 2<sup>nd</sup>). "Sampling design optimization for space-time kriging." In *Spatio-Temporal Design: Advances in Efficient Data Acquisition*, edited by W. Mueller and J. Mateu. NY: Wiley, pp. 207-230.
- \*(with R. Patuelli, M. Tiefelsdorf, and P. Nijkamp; 2<sup>nd</sup>). "Spatial Filtering Methods for Tracing Space-Time Developments in an Open Regional System: Experiments with German Unemployment Data." In *Societies in Motion: Regional Development, Industrial Innovation and Spatial Mobility*, edited by A. Frenkel, P. Nijkamp and P. McCann. Cheltenham Northampton: Edward Elgar, pp. 247-268.
- 2011 (with B. Jacob, J. Morris, E. Cammano, and R. Novak; 4<sup>th</sup>) "Testing for first-order autocorrelation error in a residual <u>regression analysis</u> of spatiotemporal-sampled *Culex quinquefasciatus* and *Aedes albopictus* habitat observational covariates using Durbin-Watson statistic and sub-meter resolution satellite explanatory predictors," in Masa Vidovic (ed.), *Encephalitis*. NY: In-Tech Publication, pp 111-126. <a href="http://www.intechweb.org/">http://www.intechweb.org/</a>
- 2010 "Spatial filtering and missing georeferenced data imputation: a comparison of the Getis and Griffith methods," in L. Anselin and S. Rey (eds.), *Perspectives on Spatial Data Analysis*. Berlin: Spriger-Verlag, pp. 227-234.
- 2009 "Spatial autocorrelation in spatial interaction: complexity-to-simplicity in journey-to-work flows," in P. Nijkamp and A. Reggiani (eds.), *Complexity and Spatial Networks: In Search of Simplicity*. Berlin: Springer-Verlag, pp. 221-237.
- 2009 "Quick but not so dirty ML estimation of spatial autoregressive models," in M. Sonis and G. Hewings (eds.), *Tool Kits in Regional Science*. Berlin: Springer-Verlag, pp. 215-241.
- 2000 "Seemingly invisible farms in southwestern Pennsylvania," in K. Patrick and J. Scarpaci (eds.), A Geographic Perspective of Pittsburgh and the Alleghenies: From Precambrian to Post-industrial, American Association of Geographers, pp. 175-181.
- 1998 (with C. Amrhein) "Introduction: Focus on Jean Paelinck," in D. Griffith, C. Amrhein and J-M. Huriot (eds.), *Advances in Spatial Modelling and Methodology: Essays in Honor of Jean Paelinck*, Dordrecht: Kluwer, pp. 1-6.
- 1998 (with J. Paelinck and R. van Gastel) "The Box-Cox transformation: computational and interpretation features of the parameters," in D. Griffith, C. Amrhein and J-M. Huriot (eds.), *Advances in Spatial Modelling and Methodology: Essays in Honor of Jean Paelinck*, Dordrecht: Kluwer, pp. 45-56.
- 1996 "Spatial statistical analysis and GIS: exploring computational simplifications for estimating the neighborhood spatial forecasting model," in P. Longley and M. Batty (eds.), *Spatial Analysis: Modelling in a GIS Environment*, Longman GeoInformation, pp. 255-268.
- 1996 "Introduction: the need for spatial statistics," in S. Arlinghaus and D. Griffith (eds.), *Practical Handbook of Spatial Statistics*, Boca Raton, FL: CRC Press, pp. 1-15.
- 1996 "Some guidelines for specifying the geographic weights matrix contained in spatial statistical models," in S. Arlinghaus and D. Griffith (eds.), *Practical Handbook of Spatial Statistics*, Boca Raton, FL: CRC Press, pp. 65-82.
- 1996 (with A. Can) "Spatial statistical/econometric versions of simple urban population density models," in S. Arlinghaus and D. Griffith (eds.), *Practical Handbook of Spatial Statistics*, Boca Raton, FL: CRC Press, pp. 231-249.
- 1995 "The general linear model and spatial autoregressive models," in L. Anselin and R. Florax (eds.), *New Directions in Spatial Econometrics*, Berlin: Springer-Verlag, 1995, pp. 273-295.
- 1993 Which spatial statistics techniques should be converted to GIS functions? in M. Fischer and P. Nijkamp (eds.), *Geographic Information Systems, Spatial Modelling and Policy Evaluation*, Berlin: Springer-Verlag, pp. 103-114.
- 1992 Model identification for estimating missing values in space-time data series: monthly inflation in the U.S. Urban System, 1977-1990, in G. Haag, U. Mueller, and K. Troitzsch (eds.), *Economic Evolution and Demographic Change: Formal Models in Social Sciences*, Berlin: Springer-Verlag, pp. 192-218.
- 1990 A numerical simplification for estimating parameters of spatial autoregressive models, in D. Griffith (ed.), *Spatial Statistics: Past, Present, and Future*, Ann Arbor, MI: Institute of Mathematical Geography, pp. 185-195.
- 1984 Theory of spatial statistics, in C. Willmott and G. Gaile (eds.), *Spatial Statistics and Models*, Dordrecht, The Netherlands: R. Reidel, pp. 3-15.

- Measuring the arrangement property of a system of areal units generated by partitioning a planar surface, in G. Bahrenberg, M. Fischer and P. Nijkamp (eds.), *Recent Developments in Spatial Analysis: Methodology, Measurement, Models*, Aldershot, UK: Gower, pp. 191-200.
- 1982 Geographic infrastructure and numerical spatial analysis, in *Spatial-Economic Structures of the Far East*, Vladivostok: USSR Academy of Sciences, pp. 93-103.

# Conference Proceedings (11 single authored; 24 joint authored)

- 2017 (with Li; 1<sup>st</sup>) A geocomputation and geovisualization comparison of Moran and Geary eigenvector spatial filtering, in CPGIS Publication Committee, *Proceedings* of the 25<sup>th</sup> International Conference on Geoinformatics, Geoinformatics 2017, SUNY/Buffalo, Buffalo, NY, August 2-4, 4 pp.
- 2017 (with Parmentier, Millones, Hamilton, Chun, and McFall; 3<sup>rd</sup>). Chapter 18: When space beats time: a proof of concept with Hurricane Dean filters, in D. Griffith, Y. Chun, and D. Dean (eds.), *Advances in Geocomputation: Geocomputation 2015—The 13th International Conference*. Berlin: Springer, 207-215.
- 2017 (with Morris and Thakar; 3<sup>rd</sup>) Chapter 21: Respondent driven sampling and spatial autocorrelation, in D. Griffith, Y. Chun, and D. Dean (eds.), *Advances in Geocomputation: Geocomputation 2015—The* 13th International Conference. Berlin: Springer, 241-251.
- 2017 (with Luo and Wu; 2<sup>nd</sup>) Chapter 22: The Moran Coefficient and the Geary Ratio: Some mathematical and numerical comparisons, in D. Griffith, Y. Chun, and D. Dean (eds.), *Advances in Geocomputation: Geocomputation 2015—The 13th International Conference*. Berlin: Springer, 253-269.
- 2017 (with Parmanand, Lee, and Chun; 4<sup>th</sup>) Chapter 25: The statistical distribution of coefficients for constructing eigenvector spatial filters, in D. Griffith, Y. Chun, and D. Dean (eds.), *Advances in Geocomputation: Geocomputation 2015—The 13th International Conference*. Berlin: Springer, 295-302.
- 2017 (with Lee and Chun; 3<sup>rd</sup>) Chapter 29: Uncertainties of spatial data analysis introduced by selected sources of error, in D. Griffith, Y. Chun, and D. Dean (eds.), *Advances in Geocomputation:*Geocomputation 2015—The 13th International Conference. Berlin: Springer, 303-313.
- 2016 (with Y. Chun and H. Koo; 3<sup>rd</sup>) A comparison of optimal map classification methods incorporating uncertainty information, in J-S Bailly, D. Griffith, and D. Josselin (eds.), *Proceedings of Spatial Accuracy* 2016. Avignon, FR: UMR 7300 ESPACE, pp. 177-181.
- 2016 (with Y. Chun and M. Lee; 1<sup>st</sup>) Locational error impacts on local spatial autocorrelation indices: a Syracuse soil sample Pb-level data case study, in J-S Bailly, D. Griffith, and D. Josselin (eds.), *Proceedings of Spatial Accuracy 2016*. Avignon, FR: UMR 7300 ESPACE, pp. 136-143.
- 2015 (with Bivand and Chun; 1<sup>st</sup>) Implementing approximations to extreme eigenvalues and eigenvalues of irregular surface partitionings for use in SAR and CAR models, *Procedia Environmental Sciences*, 26: 119-122.
- 2014 (with Chun; 2<sup>nd</sup>) Impacts of positional error on spatial statistics confidence intervals, in *Proceedings of Spatial Accuracy 2014*. Available at http://www.spatial-accuracy.org/Accuracy2014; 6 pp.
- 2012 (with Heuvelink; 1<sup>st</sup>) Chapter 1: Deriving space-time variograms from space-time autoregressive (STAR) model specifications, in A. Yeh, J. Shi, Y. Leung, and C. Zhou (eds.), *Advances in Spatial Data Handling and GIS*, pp. 3-14. Berlin: Springer Verlag.
- Positive spatial autocorrelation, mixture distributions, and geospatial data histograms, in Y. Leung, B. Lees, C. Chen, C. Zhou, and D. Guo (eds.), *Proceedings* of the Spatial Data Mining and Geographical Knowledge Services (ICSDM) 2011 IEEE International Conference, Fuzhou, China, June 29-July 1. Beijing: IEEE, Inc., pp. 1-6; <a href="http://ieeexplore.ieee.org/xpl/mostRecentIssue.jsp?punumber=5958522">http://ieeexplore.ieee.org/xpl/mostRecentIssue.jsp?punumber=5958522</a>.
- 2010 (with R. Haining; 1<sup>st</sup>) Analyzing small geographic area datasets containing values having high levels of uncertainty, in N. Tate and P. Fisher (eds.), *Accuracy 2010*, Proceedings of the 9th International Symposium on Spatial Accuracy Assessment in Natural Resources and Environmental Sciences (University of Leicester, 20-23 July), Leicester, UK: MPG Books Group, pp. 289-292.
- 2008 Spatial autocorrelation and random effects in digitizing error, in J. Zhang and M. Goodchild (eds.), Spatial Uncertainty, vol I, Proceedings of the 8<sup>th</sup> International Symposium on Spatial Accuracy Assessment in Natural Resources and Environmental Sciences, Shanghai, China: World Academic Press, pp. 94-102.

- 2006 Statistical efficiency of model-informed geographic sampling designs, in C. Mário and M. Painho (eds.), *Proceedings of Accuracy 2006*, Proceedings of the 7<sup>th</sup> International Symposium on Spatial Accuracy Assessment in a Natural Resources and Environmental Sciences, Lisboa, Portugal: Instituto Geográfico Português, pp. 91-98.
- 2002 (with S. McMaster; 1st) Spatial statistical evaluation of a forestry suitability index: assessing uncertainty in spatial decision making, in G. Hunter and K. Lowell (eds.), Accuracy 2002, Proceedings of the 5th International Symposium on Spatial Accuracy Assessment in Natural Resources and Environmental Sciences, Melbourne, AU: RMIT U., pp. 522-530.
- 2000 (with G. Arbia and R. Haining) Error propagation effects in aggregated spatial data with location error, in G. Heuvelink and M. Lemmens (eds.), *Accuracy 2000*, Proceedings of the 4<sup>th</sup> International Symposium on Spatial Accuracy Assessment in Natural Resources and Environmental Sciences, Delft, NL: Delft U. Press, pp. 261-266.
- 2000 Spatial statistical reflections on an area frame sampling design for collecting agricultural statistics in South Africa, *Proceedings* of the RSAI/Port Elizabeth Technikon Symposium in South Africa on: Challenges for Integrated Regional Development: International & South African Experiences, Port Elizabeth, South Africa: http://www.petech.ac.za/RegDev/html/Paper-Griffith.htm.
- 1999 (with G. Arbia and R. Haining) Uncertainty and error propagation in map analyses involving arithmetic and overlay operations: inventory and prospects, in K. Lowell and A. Jaton (eds.), *Spatial Accuracy Assessment: Land Information Uncertainty in Natural Resources*, Ann Arbor Press pp. 11-25
- \*(with P. Fellows) Pixels and eigenvectors: classification of LANDSAT TM imagery using spectral and locational information, in K. Lowell and A. Jaton (eds.), *Spatial Accuracy Assessment: Land Information Uncertainty in Natural Resources*, Ann Arbor Press, pp. 309-317.
- \*(with L. Layne) Uncovering relationships between geo-statistical and spatial autoregressive models, in the 1996 *Proceedings on the Section on Statistics and the Environment*, American Statistical Association, pp. 91-96.
- \*(with L. Layne and P. Doyle) Further explorations of relationships between semi-variogram and spatial autoregressive models, in H. Mowrer, R. Czaplewski and R. Hamre (eds.), *Spatial Accuracy in Natural Resource and Environmental Sciences: Second International Symposium.* Ft. Collins CO: Rocky Mountain Forest and Range Experiment Station, General Technical Report RM-GTR-277, pp. 147-154.
- 1994 (with C. Amrhein) Errors in spatial data bases: a summary of results from several research projects, in R. Congalton (ed.), *International Symposium on the Spatial Accuracy of Natural Resource Data Bases*. Bethesda, MD: American Society for Photogrammetry & Remote Sensing, pp. 214-226.
- \*(with D. Long, S. DeGloria, G. Carlson, and G. Nielsen) Spatial regression analysis of crop and soil variability within an experimental research field, in P. Robert et al (eds.), *Proceedings* of the First Workshop on Soil Specific Crop Management, Minneapolis, MN, April 14-16, 1992. Madison, WI: ASA-CSSA-SSSA, pp. 365-366.
- 1992 Statistical analysis of spatial urban census data in the presence of missing values, *Proceedings*, Statistics Canada Symposium 91: Spatial Issues in Statistics (held November 12-14), Ottawa: Statistics Canada, pp. 251-268.
- 1991 (with C. Amrhein) A simple model for statistical quality control of geographical data in an information system, *Proceedings*, The Canadian Conference on GIS (held March 18-22), Ottawa: CISM, pp. 94-103.
- 1991 Data quality and visualization: a position paper, in M. Beard, B. Buttenfield, and S. Clapham (eds.), NCGIA Research Initiative 7: Visualization of Spatial Data Quality, <u>Technical Paper</u> No. 91-26, NCGIA, C77-C85.
- Distance calculations and errors in geographic data bases, in M. Goodchild and S. Gopal (eds.), *Accuracy of Spatial Databases*, New York: Taylor & Francis, pp. 81-90; *translated and reprinted in abridged form* in *Nederlands Geodetisch Tijdschrift Geodesia*, 92-1 (1992), 4-8; specially acknowledged by the French National Geographic Institute, 1997.
- 1986 Model identification for estimating missing values in space-time data series: monthly inflation in the U.S. urban system, 1977-1985, in D. Griffith and R. Haining (eds.), *Transformations Through Space and Time*. The Hague: Martinus Nijhoff, pp. 309-319.
- \*(with J. Huff, M. Sonis, L. Leifer and D. Straussfogel) Dynamic central place theory: an appraisal and future prospects, in D. Griffith and R. Haining (eds.), *Transformations Through Space and Time*. The Hague: Martinus Nijhoff, pp. 121-151.

- 1985 (with R. Haining and R. Bennett) Estimating missing values in space-time data series, in J. Ord and O. Anderson (eds.), *Time Series Analysis: Theory and Practice 6*. Amsterdam: North-Holland, pp. 273-282.
- 1983 Contraction dynamics of the Puerto Rican sugar industry: a preliminary analysis, in B. Lentnek (ed.), Contemporary Issues in Latin American Geography, Proceedings of CLAG #9, pp. 142-143.
- \*(with C. Amrhein and J. Guevara) The effect of random Thiessen structure and random processes on the measurement of spatial autocorrelation, *Proceedings*, 14th annual Pittsburgh Modelling and Simulation Conference, pp. 585-589.
- 1983 Phasing-out of the Puerto Rican sugar industry, in D. Griffith and A. Lea (eds.), *Evolving Geographical Structures*. The Hague: Martinus Nijhoff, pp. 196-228.
- 1981 Interdependence in space and time: numerical and interpretative considerations, in D. Griffith and R. MacKinnon (eds.), *Dynamic Spatial Models*. Alphen aan den Rijn: Sijthoff and Noordhoff, pp. 258-287.

# Secondary and Non-refereed Publications (43 single authored; 20 joint authored)

- 2017 MR3559934, *Mathematical Reviews*: Adachi, K. *Matrix-Based Introduction to Multivariate Data Analysis*, Springer, 2016; forthcoming
- 2017 (with Chun and Dean; 1<sup>st</sup>) Preface and Introductions (the book, Part I, Part II, Part III, and Part IV), in D. Griffith, Y. Chun, and D. Dean (eds.), *Advances in Geocomputation: Geocomputation 2015—The 13th International Conference*. Berlin: Springer, v-x, 1-3, 33, 123-124, 239, 345.
- 2016 MR3433676, *Mathematical Reviews*: zhai, A., and D. Wiens, Robust model-based stratification sampling designs. *The Canadian Journal of Statistics*, 43 (2015), 554–577; forthcoming
- 2016 MR3394154, Mathematical Reviews: Ould-Baba, H., V. Robin, and J. Antoni, Concise formulae for the cumulant matrices of a random vector. Linear Algebra and Its Applications 485 (2015), 392-416; forthcoming
- with R. Bivard and Y. Chun; 1<sup>st</sup>) Implementing approximations to extreme eigenvalues and eigenvalues of irregular surface partitionings for use in SAR and CAR models, *Procedia Environmental Sciences*, 26: 119-122.
- MR3365014, Mathematical Reviews: Adams, H., A. Atanasov, and G. Carlsson, Nudged elastic band in topological data analysis. *Topological Methods and Nonlinear Analysis*. 45 (2015), 247-272; <a href="http://www.ams.org/mathscinet-getitem?mr=3365014">http://www.ams.org/mathscinet-getitem?mr=3365014</a>.
- **2015** MR3355571, *Mathematical Reviews*: A. Al-Hassan, and M. Hajja, A simple derivation of the eigenvalues of a tridiagonal matrix arising in biogeography. *Applicationes Mathematicae (Warsaw)* **42** (2015), 23-27; <a href="http://www.ams.org/mathscinet-getitem?mr=3355571">http://www.ams.org/mathscinet-getitem?mr=3355571</a>.
- 2015 MR3314161, Mathematical Reviews: Maridewicz, A., and S. Puntanen, All about the ⊥ with its applications in the linear statistical models, Open Mathematics 13 (2015), 33-50; <a href="http://www.ams.org/mathscinet-getitem?mr=3314161">http://www.ams.org/mathscinet-getitem?mr=3314161</a>.
- 2015 MR3241636, Mathematical Reviews: Gruber, M. Matrix Algebra for Linear Models, Wiley, 2014; <a href="http://www.ams.org/mathscinet/pdf/3241636.pdf?pg1=RVRI&pg3=authreviews&s1=76920&vfpref=html&r=1">http://www.ams.org/mathscinet/pdf/3241636.pdf?pg1=RVRI&pg3=authreviews&s1=76920&vfpref=html&r=1</a>
- 2014 MR3216647, *Mathematical Reviews*: Protasov, V.; and D. Logofet. Rank-one corrections of nonnegative matrices, with an application to matrix population models. *SIAM J. Matrix Anal. Appl.* 35 (2014), no. 2, 749-764; <a href="http://www.ams.org/mathscinet-getitem?mr=3216647">http://www.ams.org/mathscinet-getitem?mr=3216647</a>
- 2014 MR3204324, *Mathematical Reviews*: Merikoski, Jorma K.; Kovačec, Alexander An upper bound for the largest eigenvalue of a nonnegative symmetric matrix with zero diagonal. *The Natália Bebiano anniversary volume*, 121--129, Textos Mat. Sér. B, 44, *Univ. Coimbra, Coimbra*, 2013; <a href="http://www.ams.org/mathscinet-getitem?mr=3204324">http://www.ams.org/mathscinet-getitem?mr=3204324</a>
- 2014 MR3137632, Mathematical Reviews: Carlson, G. The shape of data, Foundations of Computational Mathematics, Budapest 2011, 16–44, Cambridge Univ. Press, Cambridge, London Math. Soc. Lecture Note Ser., 403, 2013; <a href="http://www.ams.org/mathscinet-getitem?mr=3137632">http://www.ams.org/mathscinet-getitem?mr=3137632</a>
- 2014 MR3102908, *Mathematical Reviews*: Jordan, M. On statistics, computation and scalability, *Bernoulli* 19 (2013), no. 4, 1378-1390; <a href="http://www.ams.org/mathscinet-getitem?mr=3102908">http://www.ams.org/mathscinet-getitem?mr=3102908</a>
- 2014 MR3097174, *Mathematical Reviews*: Bruno, F., D. Cocchi, and A. Vagheggini. Finite population properties of individual predictors based on spatial patterns, *Environ. Ecol. Stat.* 20 (2013), no. 3, 467-494; http://www.ams.org/mathscinet-getitem?mr=3097174
- 2014 MR3090433, *Mathematical Reviews*: Hürlimann, W. Generalized Helmert-Ledermann orthogonal matrices and rom simulation, *Linear Algebra Appl.* 439 (2013), no. 7, 1716-1729; <a href="http://www.ams.org/mathscinet-getitem?mr=3090433">http://www.ams.org/mathscinet-getitem?mr=3090433</a>

- 2014 Editorial: Editor's Comments, Geographical Analysis, 46: 337-339.
- 2014 (with S. Stehman and A. Stein; 1<sup>st</sup>) Editorial for the special issue entitled "Revealing Intricacies in Spatial and Spatio-Temporal Data: Papers from the Spatial Statistics 2013 Conference," *Spatial Statistics*, 9: 1-3.
- 2014 (with S. Arlinghaus; 2<sup>nd</sup>) Eigenvalue fractal geometry: an alternative approach to fractal generation, *Solstice*, XXV (1), <a href="http://www.mylovedone.com/image/solstice/sum14/">http://www.mylovedone.com/image/solstice/sum14/</a>
- 2013 MR2993871, *Mathematical Reviews*: Caro-Lopera, F.; González-Farías, G.; Balakrishnan, N. Determinants, permanents and some applications to statistical shape theory, *J. Multivariate Anal.* 114 (2013), 29–39; <a href="http://www.ams.org/mathscinet-getitem?mr=2993871">http://www.ams.org/mathscinet-getitem?mr=2993871</a>
- 2012 MR2921728, *Mathematical Reviews*: Klein, A.; and Spreij, P. Transformed statistical distance measures and the Fisher information matrix, *Linear Algebra Appl.* 437 (2012), no. 2, 692-712; <a href="http://www.ams.org/mathscinet-getitem?mr=2921728">http://www.ams.org/mathscinet-getitem?mr=2921728</a>
- 2012 MR2869495, *Mathematical Reviews*: Bocci, C.; Carlini, E.; and Rapallo, F. Perturbation of matrices and nonnegative rank with a view toward statistical models, *SIAM J. Matrix Anal. Appl.* 32 (2011), no. 4, 1500-1512; http://www.ams.org/mathscinet-getitem?mr=2869495
- 2011 Editorial: Geography, graph theory, and the new network science, Geographical Analysis, 43: 345-346.
- 2010 (with S. Arlinghaus; 2<sup>nd</sup>) Mapping it out! A contemporary view of Burgess's concentric ring model of urban growth, *Solstice*, XXI (2), www.mylovedone.com/image/solstice/win10/ArlinghausandGriffith.html
- 2010 Editorial: Celebrating 40 years of scientific impacts by Alan Wilson, *Geographical Analysis*, 42: 361-363.
- 2010 (with R. Patuelli, N. Schanne, and P. Nijkamp; 3<sup>rd</sup>) "Persistent disparities in regional unemployment: application of a spatial filtering approach to local labour markets in Germany," also *Research Memorandum* 2010-1 (also *Quaderni DSE Working Paper* No. 743, Università de Bologna). Amsterdam: Faculty of Economics and Business Administration, Vrije Universiteit.
- 2009 Editorial: Celebrating 40 years of scientific impacts by Cliff and Ord, *Geographical Analysis*, 41: 343-345.
- 2009 Introduction, Geographical Analysis, 41: 1-2.
- 2007 (with G. Christakos) Medical geography as a science of interdisciplinary knowledge synthesis under conditions of uncertainty, *Stochastic Environmental Research & Risk Assessment*, 21: 459-460.
- 2007 An assessment of Mr. Alec Rawls's "Islamic and jihadist design features of the Crescent/Bowl of Embrace," report submitted to the National Park Service, U.S. Department of the Interior.
- 2006 Beyond the bell-shaped curve: Poisson models in spatial data analysis, Geographical Analysis, 38: iii-iv.
- \*(with R. Patuelli, M. Tiefelsdorf and P. Nijkamp) The use of spatial filtering techniques: the spatial and space-time structure of German unemployment data, *Discussion Paper # 06-049/3*, Tinbergen Institute, Amsterdam, The Netherlands.
- 2001 (with A. Lea) "Opposites don't attract in spatial autocorrelation," *GEOWorld*, 14, #11 (November), 42-44 (www.geoplace.com/gw/).
- \*(with P. Fellows and F. Lagona), "Promoting statistical literacy: a conceptual approach to teaching first-year students," in 1999 Sigma Xi Forum Proceedings, p. 173.
- 2000 "Small geographic area estimation contributions to federal agricultural data: a Pennsylvania case study," *The Pennsylvania Geographer*, 38 (#1): 3-29.
- 2000 "President's Column," Sigma Xi News, 9 (#3), March, pp. 1, 5.
- "A methodology for small area estimation with special reference to a one-number agricultural census and confidentiality: results for selected major crops and states," <u>RD Research Report</u>, Number RD-99-04, National Agricultural Statistics Service, U.S. Department of Agriculture.
- 1999 "President's Column," Sigma Xi News, 9 (#2), October, pp. 1, 4.
- 1997 (with F. Lagona) "Specification errors in spatial models: impacts on modeling and estimation," <u>Discussion Paper</u> No. 108, Department of Geography, Syracuse University.
- 1997 "Final Report: Spatial Sampling for the 'Community Benchmark Project'" for project funded by the Alfred P. Sloan Foundation, W. Coplin and A. Merget Pls, Public Administration.
- (with S. Borker, S. Stehman, and S. Halperin) "STT 101: Introduction to Statistics, a final report on development of the course," <u>Final Report</u> submitted to the Dean of Arts & Sciences; <u>Final Report</u> on "Design of a numerically based introduction to statistics (STT 101)," Syracuse University Faculty Instructional Grants Program, to Center for Instructional Development.

- 1995 (with R. Martin) "Some results on graph spectra, with applications to geographic spatial modelling," Research Report No. 461/95, Department of Probability and Statistics, U. of Sheffield.
- \*(with A. Sone) "Some trade-offs associated with computational simplifications for estimating spatial statistical/econometric models: preliminary results," <u>Discussion Paper</u> No. 103, Department of Geography, Syracuse University.
- 1993 A course in spatial statistics, <u>Technical Report</u> #153, Department of Statistics, Oregon State University.
- 1992 (with J. Mercer, F. Csillag, M. Monmonier, and A. Can) "The Utility of GIS for State Housing Agency Databases: New York State's SHARS," <u>Final Report</u> submitted to the NYS Science and Technology Foundation.
- 1992 "Estimating missing values in spatial urban census data," *The Operational Geographer*, 10 (2): 23-26 [also translated into French].
- \*(with A. Sone) "Trade-offs associated with computational simplifications for estimating spatial statistical models," <u>Working Paper</u>, l'Institut de Mathematiques Economiques, Universite de Bourgogne, Dijon, France (with French "Resumé").
- 1991 "Error assessment, locational errors, and attribute errors," in GIS and spatial data analysis: report on the Sheffield workshop, <u>Regional Research Laboratory Initiative Discussion Paper</u> #11, R. Haining and S. Wise (eds.), University of Sheffield, November pp. 14-15.
- "Univariate and multivariate modelling of areal data, in GIS and spatial data analysis: report on the Sheffield workshop," in R. Haining and S. Wise (eds.), <u>Regional Research Laboratory Initiative Discussion Paper</u> #11, University of Sheffield, pp. 22-25.
- 1991 (with C. Amrhein) "A statistical model for analyzing error in geographic data in an information system," <u>Discussion Paper</u> No. 38, Department of Geography, University of Toronto.
- 1991 \*(with A. Sone) "An evaluation study of a location-allocation modeling software package for the PC," <u>Discussion Paper</u> No. 101, Department of Geography, Syracuse University.
- \*(with R. Lewis, B. Li, I. Vasiliev, S. McKnight, X. Yang) "Developing MINITAB software for spatial statistical analysis: a tool for education and research," *The Operational Geographer*, 8 (3): 28-33.
- 1990 (with R. Jensen, M. Monmonier, S. DeGloria, L. Herrington) <u>Final Report</u>, New York State Program in Geographic Information and Analysis Planning Grant, Syracuse University, 191 pp.
- 1990 "A New York State Program in Geographic Information and Analysis: report on the planning grant," URISA NYS Chapter Newsletter, Vol. 1, #2 (Winter).
- 1988 "A Reply to R. Martin, Some comments on correction techniques for boundary effects and missing value techniques," *Geographical Analysis*, 20: 70-75.
- 1986 "An overview of the spatial statistics literature," <u>Discussion Paper</u> No. 1986/6, Foundations of Empirical Economics Research Series, Netherlands Economic Institute.
- 1981 "Towards a theory of spatial statistics: a rejoinder," *Geographical Analysis*, 13: 91-93.
- 1978 The impact of configuration and spatial autocorrelation on the investigation and interpretation of geographical models, unpublished doctoral dissertation, Department of Geography, University of Toronto.
- 1977 "Spatial economic dynamics and the Canadian grain handling system: some preliminary findings," Working Paper No. 5, U. of Toronto/York U. Joint Program in Transportation, U. of Toronto.
- 1976 "Spatial autocorrelation problems: some preliminary sketches of a structural taxonomy," *The East Lakes Geographer*, 11: 59-68.
- 1975 "The search for spatial theories: on the role of conceptual and computational models in geographic research," *The Geographical Bulletin*, 9: 7-13.
- 1975 (with L. Bourne) "The spatial organization of urban land use: a statistical evaluation of a classification," Research Paper No. 69, Centre for Urban and Community Studies, University of Toronto.
- 1974 "A maximum likelihood technique for estimating the parameters of a spatial probability function," <u>Discussion Paper</u> No. 16, Department of Geography, University of Toronto.
- 1972 "The use of regression models in geographic research: a classroom methodology," *The Pennsylvania Geographer*, 10: 7-14.

# Computer Software Design (5)

• Spatial autocorrelation simulation game; review in *The Professional Geographer*, 39 (1987), 234-235; described in the AAG Microcomputer Specialty Group newsletter, February, 1989.

- Simulating central place structures; review in *The Professional Geographer*, 42 (1990), 246-247 & Mathematical Review; described in the AAG Microcomputer Specialty Group newsletter, October, 1990.
- "Spatial regression analysis on the PC: spatial statistics using MINITAB," <u>Discussion Paper</u> #1, Institute of Mathematical Geography, 1989; review in *The Professional Geographer*, 42 (1990), 499-500; described in the AAG Microcomputer Specialty Group newsletter, February, 1991.
- Spatial regression analysis on the PC: spatial statistics using SAS, described in the AAG Microcomputer Specialty Group newsletter, February, 1992.
- EXPLORHO, Version 2.0.

Book and Computer Software Reviews (28)

- Technometrics
  - 1988 Statistical Techniques in Geographical Analysis, 30: 348-349.
- Geographical Analysis
  - 2013 An Introduction to Scientific Research Methods in Geography and Environmental Studies (2<sup>nd</sup> ed.), 45: 442-444.
  - 1993 Statistics for Spatial Data, 25: 271-275.
  - 1986 Spatial Data Analysis by Example, 18: 372-373.
- Annals, American Association of Geographers
  - 1979 Specification and Estimation Problems in Models of Spatial Dependence, 69: 497-498.
  - 2004 The Geographical Dimensions of Terrorism, 94: 998-1001.
  - 2010 Seven Rules for Social Research, 100: 1214-1216.
  - 2014 Spatial Mathematics: Theory and Practice through Mapping, The AAG Review of Books, 2(2): 65-67.
- J. of Regional Science
  - 1993 Spatial Tessellations, 33: 564-567.
- Environment and Planning
  - 1997 Interactive Spatial Data Analysis, 29A: 747-752 (review essay)
  - 1993 Applications of the Expansion Method, 20B: 370-371.
  - 1983 European Progress in Spatial Analysis, 15A: 135-136.
- International J. of Geographical Information Sciences
  - 2004 Spatial Statistics Through Applications, 18: 207-208.
- Economic Geography
  - 1989 *Spatial Econometrics*, 65: 160-162.
  - 1988 Geographical Systems and Systems of Geography, 64: 396-400.
- The Professional Geographer
  - 1987 Statistical Methods for Geographers, 39: 244-245.
  - 1982 *Spatial Statistics*, 34: 231-232.
  - 1980 Spatial Dynamics and Optimal Space-time Development, 32: 488-489.
  - 1986 PC-MATLAB, 38: 427-428.
- Geographical Review
  - 1989 *Metropolis*, 79: 479-481.
- Progress in Human Geography
  - 1983 *Spatial Processes*, 7: 149-150.
- Annals of Regional Science
  - 1988 *Spatial Cycles*, 22 (#2): 119-120.
  - 1983 *Spatial Diffusion*, 17 (#1): 125-126.
  - 1981 *Spatial Systems*, 15 (#3): 118-119.
  - 1979 Resources, Tariffs, and Trade: Ontario's State, 13 (#2): 159-161.
  - 1978 Quantitative and Analytical Studies in East-West Economic Relations, 12 (2): 128-130.
- J. of Geography
  - 1980 Statistical Concepts in Geography, 79: 273.
- The Operational Geographer

- discovered and documented 2 software bugs in initial MINITAB 11.0 release, 1997
- discovered and documented 1 software bug in initial SAS 6.12 release, 1997

#### **Invited Lectures and Presentations**

# FEATURED/KEYNOTE PRESENTATIONS (52)

- 2017 Deeper spatial statistical insights into small geographic area data uncertainty, GEOMED 2017: X International, Interdiscilinary Conference, Instituto de Investigação e Inovação de Universidade do Porto, Portugal
- 2017 Some robustness assessments of Moran eigenvector spatial filtering, SAMSG-GA plenary lecture, American Association of Geographers annual meeting, Boston
- 2016 The relative importance of spatial and temporal autocorrelation, Spatial Econometric Association, Università Cattolica del Sacro Cuore, Rome
- 2015 Evaluating eigenvector spatial filter corrections for omitted georeferenced variables, Jean Paelinck Spatial Econometric Seminar, Université de Bourgogne
- 2015 Comments on regional specialization, Summer International Workshop on regional and spatial specialization, European Regional Science Association, Sekcja Pols
- 2014 Spatial autocorrelation in spatial interaction models: geographic scale and resolution implications for journey-to-work flows, network resilience, and vulnerability, 2<sup>nd</sup> International IAB/RCEA/ZEW Workshop, IAB, Nuremberg, Germany
- 2014 Reflections on the current state of spatial statistics education in the United States: 2014, ISPRS Technical Commission VI Symposium, Wuhan, China
- 2013 Implementing Gaussian spatial autoregressive models for massive georeferenced datasets: some spatial data mining outcomes IEEE SDSTDM-13, Dallas, TX
- 2013 Spatial autocorrelation is everywhere, 18<sup>th</sup> European Colloquium of Theoretical & Quantitative Geography, Dourdan, France
- 2013 (with J. Wood and T. Brown) Spatial autocorrelation and qualitative sampling: conceptualization, an application, and extensions, inaugural Irving J. Hock Interdisciplinary Speaker Series, U. of Texas at Dallas
- 2012 Selected challenges from spatial statistics for spatial econometrics, Spatial Econometrics and Regional Economic Analysis Conference, U. of Lodz, Poland
- 2012 Ten maps that changed the world, Poznań City Hall-Adam Mickiewicz University Lecture Series
- 2011 Qualitative geographic sample size in the presence of spatial autocorrelation, 7<sup>th</sup> Arthur Getis Spatial Analysis Lecture, San Diego State University
- 2011 (with M. Fischer) Eigenvector spatial filtering: addressing spatial autocorrelation in spatial interaction data, Advances in the statistical modeling of spatial interaction data workshop, U. of Lugano (Swiss NSF funded)
- 2011 Space, time, and space-time eigenvector filter specifications that account for autocorrelation, Symposium on Geo-computation and Analysis, LIESMARS, Wuhan University; International Autumn School in Spatial Econometrics, University of Castilla-La Mancha at Toledo, Toledo (Spain)
- 2010/11 Positive spatial autocorrelation impacts on attribute variable frequency distributions, 3<sup>rd</sup> Spatial Statistics and Image Modeling Symposium, Foz de Iguaçu, Brazil (2010); Korean Society for Geospatial Information System, Busan, Korea (2011); Korean Cartographic Association, Seoul, Korea (2011)
- 2010 (with S. Arlinghaus) Urban compression patterns: fractals and non-Euclidean geometries —inventory and prospect, 1<sup>st</sup> International Conference on Cities and Their Growth: Sustainability and Fractality, Adam Mickiewicz U., Poznań, Poland
- 2010 (with G. Heuvelink) Deriving space-time variograms from space-time autoregressive (STAR) model specifications, IGU, Hong Kong
- 2009 Spatial filtering: past, present, and future, International Symposium on Geo-computation and Analysis (ISGA), LIESMARS, Wuhan University
- 2009 Remarks on observational dependence and the utilization of spatial filters in labour-market research, Labour Market Strategies and Policies in the Age of Globalization, IAB, Nuremberg, Germany

- A numerical study of planar and near-planar adjacency matrices used in geographical analysis, MAT-TRIAD 2007, Institute of Mathematics of the Polish Academy of Sciences.
- 2007 Spatially structured random effects & Spatial filtering and space-time data, Symposium on Quantitative Ecology, Research Center for Biodiversity of Academia Sinica, Taiwan.
- 2006 Entering an interdisciplinary world, 2006 Commencement Address, Indiana U. of Pennsylvania (reported on in the Sunday, May 14, 2006, *Indiana Gazette*).
- 2006 To IUP and beyond, 2006 Department of Geography & Regional Planning, Indiana U. of Pennsylvania, convocation address.
- 2003 Prioritizing remediation within a hazardous waste site, Students for Spatial Statistics Workshop, GEOIDE/Wilfrid Laurier U.
- 2002 Statistics and the Environment/American Statistical Association, U. of Washington, Seattle
- 2001 Syracuse Chapter of Sigma Xi
- 1999 Pennsylvania Geographical Society, annual meeting, Indiana, PA
- 1998 Third International Symposium on Spatial Accuracy Assessment in Natural Resources and Environmental Sciences, Quebec City, Canada
- 1997 Presidential address, 44<sup>th</sup> annual North American meetings of the Regional Science Association International, Buffalo, NY
- 1995 Annual Awards Presentation and Graduation Reception for the Department of Geography & Program in Planning, U. of Toronto
- 1995 Tinbergen Institute, Rotterdam, New Models Explaining the Development of Regions: The Case of Europe
- 1994 *GIS and Spatial Modelling* workshop and seminar, Department of Geography, U. of Bristol (co-funded by the UK ESRC and the NCGIA)
- 1993 Institut National de la Recherche Scientifique-URBANISATION, Séminaire-atelier sur les méthodes quantitatives d'analyse spatiale appliquées aux sciences sociales, , Canada
- 1993 National Center for Geographic Information and Analysis, *Exploratory Spatial Data Analysis* workshop, U. of California/Santa Barbara (U.S. NSF funded)
- 1992 Department of Regional Economics, Free U. of Amsterdam, *Exploratory spatial data analysis* (European Urban and Regional Spatial Analysis Network funded workshop)
- 1992 Department of Geography, U. of Sheffield, *Remote sensing and GIS research cluster* (NATO Scientific Affairs funded workshop)
- 1992 Groupe de Contact F.N.R.S. en Geographie Theoretique et Quantitative, Universite Catholique de Louvain, Louvain-la-Neuve
- 1992 l'Institut de Mathematiques Economiques, 26th Annual Colloquium, Universite de Bourgogne, Dijon, France
- 1992 Capital District ArcInfo User's Group, New York State Museum, Albany
- 1991 Max Planck Institute for Solid State Research, Stuttgart, *Interdisciplinary Colloquium on Forecasting for Systems with Chaotic Evolution* (Marshall Fund funded symposium)
- 1991 National Center for Geographic Information and Analysis, U. of Maine (Maine Maritime Academy), Castine (U.S. NSF funded)
- 1991 Ecosystem Research Center, Cornell U., *Advanced methods for mapping and visualizing environmental data* (USEPA funded seminar series)
- 1990 plenary session, 6th Annual NYS GIS Conference, Syracuse
- 1989 National Center for Geographic Information and Analysis, U. of California/Santa Barbara (U.S. NSF funded)
- 1985 NATO Advanced Studies Institute, Hanstholm, Denmark
- 1982 NATO Advanced Studies Institute, <i Cappuccini>, Italy (2)
- 1980 NATO Advanced Studies Institute, Chateau de Bonas, France

INVITED ACADEMIC LECTURES: GEOGRAPHY DEPARTMENTS (92)

Boston U., 1977 U. of Minnesota, 1977, 1994 (2)

U. of Bristol: 2004 U. of Montreal, 1987

UC/Santa Barbara 1983, 1993 (2); & NCGIA, Nanjing Normal University, 2008, 2014

1988, 1989, 1993, 1998 (position paper) U. of New Mexico, 2005

U. of Cambridge, 1982, 2004

Catholic U. of Louvain-la-Neuve, Belgium,

1986

Central Michigan U., 2012

Chinese Academy of Sciences/Beijing, 2013

(20th Sijan Forum Lecture)

Chinese U. of Hong Kong (ISEIS), 2010

U. of Connecticut, 1986

U. of Florida, 1983

U. of Geneva, 1992

U. of Hawaii, 1990 (2), 2013

Hong Kong Polytechnical U. (ARCSI), 2010

Indiana U., 1992

Indiana U. of Pennsylvania, 1985, 2005 (3)

International Institute for Aerospace Survey &

Earth Sciences (Cartography), Enschede,

The Netherlands, 1992

Kent State U., 1977

U. of Kentucky, 1986

U. of Lancaster (& Mathematics Dept.

& Regional Research Lab.), 1991

Louis Pasteur U. (Strasbourg, FR), 1992 (2)

McMaster U., 1980, 1993

U. of Maryland, 1999 (2)

Memorial U. of Newfoundland, 1976

U. of Miami, 2003 (2), 2005, 2011

Michigan State U., 1999, 2008, 2009 (2)

The U. of North Carolina, 2001

The Ohio State U., 2001

U. of Paris I, France, 1986

Pennsylvania State U., 1985

U. of Pittsburgh, 1980

Pontificia Univerdsidad Catolica del Peru, 2001

Queen's U. (Canada), 1993

Ryerson Polytechnical U., 1993 (3)

San Diego State U., 1999 (2)

U. of Sheffield, 1982

St. Andrews U., 2004

SUC/Geneseo, 1996

SUNY/Albany, 1986

SUNY/Buffalo, 1978, 1994

Syracuse U., 1979, 1987

Texas A&M U., 2000 (3)

U. of Toronto, 1978, 1993, 2009

U. of Utrecht (Physical Geography),

The Netherlands, 1992

Economic U. of Vienna, 1991, 2005, 2008, 2009,

2010

Virginia Polytechnical Institute & State U.,

1976, 1977

Wilfred Laurier U., 1982 (2), 1993

U. of Washington, 2002

U. of Windsor, 1976

# INVITED ACADEMIC LECTURES: OTHER ORGANIZATIONS (102)

- Banff International Research Station for Mathematical Innovation and Discovery, 2016
- School of Remote Sensing Information Engineering, Wuhan University, 2009, 2010, 2011
- Dept. of Mathematics, Universidad Técnica Federico Santa María (Chile), 2015
- Dept. of Mathematics, U. of New Mexico, 2005
- Dept. of Mathematics, Indiana U. of Pennsylvania, 2005
- Dept. of Mathematics, U. of Alberta, 2005
- Dept. of Mathematics, U. of Miami, 2004
- Dept. of Mathematical Sciences. UTD, 2014
- Dept. of Mathematical Sciences. U. of Delaware, 2014
- Center for Geospatial Analysis, College of William and Mary, 2014
- (with J. Hancock) SUNY/CES&F, "Children's Environmental Health Issues" workshop, 1998
- China Data Center & School of Natural Resources, U. of Michigan, 1999
- Office of Research, UTD, 2014
- CIMAT meeting, UTD, 2015
- Dept. of Resource Economics & Environmental Sociology, University of Alberta, 2015
- School of Natural Resources, U. of Michigan, 2000
- Institute for Social Research, U. of Michigan, 2000
- Institute Para Limes (The Netherlands), 2008
- Dept. of Epidemiology, School of Public Health, U. of Michigan, 2000 (2)—National Cancer Institute funded
- Dept. of Statistics, The Pennsylvania State U., 1984
- Dept. of Theoretical Spatial Economics, Erasmus U., Netherlands, 1986 (3), 1992 (3)
- Dept. of Earth and Atmospheric Sciences, U. of Alberta, 2000 (2), 2005, 2006
- Dept. of Statistics, SUNY/Buffalo, 1986
- Dept. of Statistics, U. of Paris V, 1986 (2)
- Dept. of Surveying and Geo-informatics, Tongji U., 2011, 2012

- Institute of Public Policy, George Mason U., 1999
- Colloquium in Earth Systems & GeoInformation Sciences, George Mason U., 2006
- Institute of Theoretical Physics, U. of Stuttgart, Germany, 1986
- Institute of Applied Mathematics, U. of Elangen-Nuernberg, Germany, 1986
- Institute of Geography, U. of Groningen, Netherlands, 1986
- Dept. of Spatial Economics, Free U., Amsterdam, Netherlands, 1986
- Istituto Ricerche Economico-Sociali del Piemonte, Italy, 1987
- Dept. of Forestry, SUNY/CES&F, 1988
- Syracuse Chapter of the American Statistical Association, Syracuse U., 1989, (& Mathematics Dept.) 1999
- Royal Statistical Society/Highlands Group, St. Andrews U., 2004
- (with C. Amrhein) the Applied Geography Conference, Binghamton, New York, 1989
- U. of Illinois/Chicago (in the "Regional Science Seminar Series"), 1990
- National Center for Supercomputing Applications Users Group, U. of Illinois/Chicago, 1990
- International Geographical Union Commission on Mathematical Models Advanced Workshop on Spatial Modelling, Boston U., 1990.
- Institute of British Geographers, U. of Sheffield, 1991
- British ESRC Workshop on "Spatial Analysis for GIS," U. of Sheffield, 1991 (2)
- National Institute of Environmental Health Sciences Workshop on "Exposure assessment using highspatial resolution, hyperspectral imagery," U. of Michigan, 2000
- (with D. Armstrong) Italian National Research Council Workshop on "Spatial Statistical Methods in Archaeological and Cultural Heritage Safeguard Research," Pescara, Italy, 2000 (2)
- Interdisciplinary Consortium for Statistical Applications, Indiana U., 1992
- Dept. of General Economics, Wageningen Agricultural U., 1992
- Dept. of Economics, Universitat Pompeu Fabra, Barcelona, 1992
- Faculty of Business Economics, Katholicke Universiteit Nijmegen, The Netherlands, 1992
- Urban Planning Group, Technische Universiteit Eindhoven, The Netherlands, 1992
- Dept. of Biology, U. of Montreal, 1993
- Institute for Land Information Management, U. of Toronto, 1993
- Dept. of Biometrics, Cornell U., 1993, 1997
- NCGIA/ESRC funded symposium workshop, Bristol U., 1994
- Dept. of Statistics, Probability, & Statistical Applications, U. of Rome "La Sapienza," 1995, 2000, 2001
- Dept. of Political and Social Science, U. of Rome II, 2001
- School of Social Science, U. of Texas/Dallas, 2001, 2006 (Social Sciences Workshop)
- The Carolina Population Center, U. of North Carolina, 2001
- Dept. of Quantitative Methods and Regional Economics, Universita' Degli Studi G. d'Annunzio, Pescara, Italy, 1995, 2000
- Dept. of Statistics, Universita' Degli Studi G. d'Annunzio, Pescara, Italy, 2004
- Sigma Xi Scientific Research Society, Local Chapter Research Presentation, 1997
- Spatial Accuracy in Natural Resource: (with C. Amrhein) Williamsburg, VA, 1994; (with L. Layne & P. Doyle)
   Ft. Collins, CO, 1996; (with P. Fellows) Quebec, 1998; (with R. Haining & G. Ariba) Amsterdam, 2000; (with
   S. McMaster) Melbourne, AU, 2002; (with M. Millones & M. Vincent) Portland, ME, 2004; Lisbon,
   Portugal, 2006; Shanghai, China, 2008; (with R. Haining) Leicester, UK, 2010; (with Y. Chun) Florianópolis,
   Brazil, 2012; (with Y. Chun) Michigan State U., USA, 2014
- RSAI/Port Elizabeth Technikon Symposium in South Africa, 2000
- CASA/U. College London, 2004
- Max Planck Institute for Demographic Research/Rostock, Germany, 2004, 2005
- Dept. of Epidemiology and Public Health, U. of Miami, 2003
- Statistics Group, U. of Miami, 2003
- CESP, U. of Miami, 2003
- Geospatial Technologies and Public Health, Texas A&M University, 2007 (2)
- (with Tiefelsdorf and Chun) Department of Civil, Architectural and Environmental Engineering, U. of Texas/Austin, 2008
- National Cancer Institute Conference on Geospatial Approaches to Cancer Control and Population Sciences, Bethesda, MD, 2016

#### **INVITED NON-ACADEMIC LECTURES (23)**

Ministerio de Educación del Perú, 12/10-15/2000, 5/14-18/2001—British ESRC funded USEPA Environmental Research Laboratory, Corvallis, OR, 1985, 1990 National Agricultural Statistics Service, U.S. Dept. of Agriculture, 1999, 2001 Rochester Region GIS Special Interest Group, Center for Governmental Research Inc., 1990 1st Syracuse Regional Lead Conference, 1997 Statistics Canada Methodology Symposium, "Issues in spatial statistics," Ottawa, 1991 Environics Analytics, Toronto, Canada, 2014 Institute of Tropical Forestry (USDA Forest Service) and the Center for Energy and Environmental Research, U. of Puerto Rico, Rio Piedras, 1992

Mathematical Sciences Section, Rijksinstituut voor Volksgezondheid en Milieuhygiene, Bilthoven, The Netherlands, 1992.

GI Science & Technology Group, Computational Physics & Engineering Division, Oak Ridge National Laboratory, 1998
Steinbeis Transfer Centre Applied System Analysis/Stuttgart, Germany, 2005

# **COMPUTER DEMONSTRATIONS AND WORKSHOPS (28)**

- 2014 (with Chun) Spatial Accuracy, Michigan State U.; (with Chun) AAG, Tampa; ERSA Summer School, Adam Mickiewicz U., Poland
- 2013 (with Chun) Spatial Statistics, Columbus
- 2012 & 2013 (with Chun) NA Regional Science annual meeting, Ottawa, CA; Atlanta
- 2012 (with Chun) Spatial Accuracy Assessment in Natural Resource and Environmental Sciences
- 2011 (with Chun) Seoul National University, Korea; Korean Research Institute for Human Settlements, Seoul
- 2008 (with Tiefelsdorf) Spatial Filtering with the Eigenvector Approach, UTD (NSF funded)
- 2007 Research Center for Biodiversity of Academia Sinica, Taiwan, Fushan Botanical Garden Research Center
- 2005 Max Planck Institute for Demographic Research/Rostock, Germany; U. of Alberta
- 1994 Dept. of Geography, SUNY/Buffalo
- 1993 Assn. of American Geographers, 89th annual meeting, Atlanta; Dept. of Geography, UC/Santa Barbara
- 1992 Dept. of Economics, Universitat Pompeu Fabra, Barcelona, Spain; CNRS Pour l'Advancement des Recherches sur l'Interaction Spatiale, U. of Paris I (Sorbonne); "Exploratory spatial data analysis" workshop, Dept. of Regional Economics, Free U. of Amsterdam [funded by the European Urban and Regional Spatial Analysis Network]; Interdisciplinary Consortium for Statistical Applications & Dept. of Geography, Indiana U.; American Association of Geographers, 88th annual meeting, San Diego
- 1991 "Spatial Analysis for GIS," Dept. of Geography, U. of Sheffield [funded by British ESRC]; Dept. of Geography, U. of Ottawa; Cornell Theory Center's National Supercomputer Facility; Statistics Canada (2)
- 1989 (with Anselin) American Association of Geographers, 85th annual meeting, Baltimore (2); Sixth European Colloquium on Theoretical and Quantitative Geography, Chantilly, France
- 1978 Ontario Division of the Canadian Association of Geographers, Ryerson Polytechnical U.

#### **PRESENTATIONS**

- American Association of Geographers annual meeting: Milwaukee (70<sup>th</sup>), 1974; Salt Lake City (73<sup>rd</sup>), 1977; New Orleans (74<sup>th</sup>), 1978; Philadelphia (75<sup>th</sup>), 1979; Louisville (invited for the Nystrom Competition; 76<sup>th</sup>), 1980; Los Angeles (77<sup>th</sup>), 1981; San Antonio (78<sup>th</sup>), 1982; Denver (79<sup>th</sup>), 1983; Washington, D. C. (80<sup>th</sup>), 1984; Minneapolis (82<sup>nd</sup>), 1986; Phoenix (84<sup>th</sup>), 1988; San Diego (88<sup>th</sup>), 1992; San Francisco (90<sup>th</sup>), 1994 (2); Chicago (91<sup>st</sup>), 1995; Ft. Worth (93<sup>rd</sup>), 1997; Boston (94<sup>th</sup>), 1998; Honolulu (95<sup>th</sup>), 1999 (2); Pittsburgh (96<sup>th</sup>), 2000; New York (97<sup>th</sup>), 2001; Los Angeles (98<sup>th</sup>), 2002 (2); New Orleans (99<sup>th</sup>), 2003; Philadelphia (100<sup>th</sup>), 2004; Denver (101<sup>st</sup>), 2005; Chicago (102<sup>nd</sup>), 2006; San Francisco (103<sup>rd</sup>), 2007 (2); Boston (104<sup>th</sup>), 2008 (3); Las Vegas (105<sup>th</sup>), 2009; Washington, DC (106<sup>th</sup>), 2010 (2); Seattle, WA (107<sup>th</sup>), 2011; New York City (108<sup>th</sup>), 2012; Los Angeles (109<sup>th</sup>), 2013 (2); Tampa (110<sup>th</sup>), 2014 (4); Chicago (111<sup>th</sup>), 2015 (3); San Francisco (112<sup>th</sup>), 2016 (4)
- NA Regional Science Association annual meeting: Chicago (25<sup>th</sup>), 1978; Los Angeles (26<sup>th</sup>), 1979; Milwaukee (27<sup>th</sup>), 1980; (with B. Holly) Montreal (28<sup>th</sup>), 1981; Pittsburgh (29<sup>th</sup>), 1982; Chicago (30<sup>th</sup>), 1983; Baltimore (34<sup>th</sup>), 1987; Toronto (35<sup>th</sup>), 1988; Santa Barbara (CA; 36<sup>th</sup>), 1989; Boston (37<sup>th</sup>), 1990; New Orleans (38<sup>th</sup>), 1991; (with A. Can) Houston (40<sup>th</sup>), 1993; Niagara Falls (41<sup>st</sup>), 1994; (with Can; with Tiefelsdorf) Cincinnati,

(42<sup>nd</sup>), 1995; Washington, DC (43<sup>rd</sup>), 1996; Buffalo (44<sup>th</sup>), 1997; Santa Fe (45<sup>th</sup>), 1998; (with A. Getis; with D. Wong) Montreal (46<sup>th</sup>), 1999; Chicago (47<sup>th</sup>), 2000; Charleston (48<sup>th</sup>), 2001; San Juan, Puerto Rico (49<sup>th</sup>), 2002 (2); Philadelphia (50<sup>th</sup>), 2003; Seattle (51<sup>st</sup>), 2004 (2); Las Vegas (52<sup>nd</sup>), 2005 (2); Toronto (53<sup>rd</sup>), 2006 (2); Savannah (54<sup>th</sup>), 2007; Brooklyn (55<sup>th</sup>), 2008 (4); San Francisco, (56<sup>th</sup>) 2009; Denver (57<sup>th</sup>), 2010; Miami, FL (58<sup>th</sup>), 2011; Ottawa, CA (59<sup>th</sup>), 2012; Atlanta (60<sup>th</sup>), 2013; Bethesda, MD (61<sup>st</sup>), 2014 (2); Portland, OR (62<sup>nd</sup>), 2015 (2); Minneapolis, MN (63<sup>rd</sup>), 2016 (3)

- Geocomputation: Wuhan, 2013 (poster); UTD, 2015 (6)
- American Association for the Advancement of Science: Boston, 2013
- International Society for Urban Health, San Francisco, 2016
- The Spatial Econometrics Association: Cambridge, 2007; Barcelona, 2009 (2); Washington, DC, 2013; Rome, IT, 2016
- Spatial Accuracy Assessment in Natural Resource and Environmental Sciences: Williamsburg, VA, 1994; Ft. Collins, CO, 1996; Quebec, 1998; Amsterdam, 2000; Melbourne, Australia, 2002; (& TIES) Portland, ME, 2004; Lisbon, Portugal, 2006; Shanghai, China, 2008; Leicester, 2010; Florianópolis, Brazil, 2012 (2); Michigan State U., 2014; Montpellier, 2016 (2)
- American Statistical Association annual meeting: Toronto, 1994; Chicago, 1996; (paper presenter & co-exhibitor) Baltimore, 1999; Montreal, 2013
- ERSA Summer School: Poznan, 2014
- ISPRS-IGU International Conference: Toronto, 2014 (2)
- NECTAR: Azores, 2013
- Spatial Statistics: Enschede (The Netherlands), 2011
- LINSTAT 2012, Będlewo, Poland
- GEOINT: San Antonio, 2011
- The Society for Environmental Geochemistry and Health: New Orleans, 2007; Galway, Ireland, 2010
- International Medical Geography Symposium: Ft. Worth, TX, 2005
- GEOMED 2005: U. of Cambridge
- Spatial Ecology Workshop, U. of Miami: 2005
- P20 Exploratory Centers Program Workshop, U. of Miami: 2005
- TIMS/ORSA annual meeting: Chicago, 1993
- Sigma Xi Forum & Sigma Xi annual meeting, Minneapolis, 1999 (2)
- PRSCO: Wellington (& ANZRSA; NZ), 1997; Valdivia (Chile), 2004
- Canadian Association of Geographers: U. of Western Ontario, 1978; Queen's U., 1991; Waterloo, 1994; Montreal, 1995 (2)
- Quantitative Methods Study Group, Institute of British Geographers: U. of Sheffield, 1983
- 10th International Time Series Meeting: Toronto, 1983
- British Section, Regional Science Association: U. of Leeds, 1983
- ISPRS-IGU: Toronto, 2014
- IGU Mathematical Models Working Group: Madrid, Spain, 1986; Canberra, Australia, 1988; Princeton, NJ, 1992.
- IGU Regional Congress: Brisbane, Australia, 2006
- Canadian Regional Science Association: McMaster U., 1987
- European Colloquium on Quantitative & Theoretical Geography: Bardonecchia, Italy, (5th) 1987; Chantilly, France, (6th) 1989; Dourdan, France, (18<sup>th</sup>) 2013
- European Congress of the Regional Science Association: Louvain-la-Neuve, Belgium (32<sup>nd</sup>), 1992; Volos, Greece, 2006; Liverpool, UK, 2008; Lodz, Poland, 2009; Lisbon, Portugal, 2015
- 3<sup>rd</sup> ICA Workshop on Geospatial Analysis and Modeling, Gävle, Sweden, 2009
- StatGIS 2009, Milos, Greece, 2009
- (with D. Johnson and K. McDade) Rocky Mountain Section of the S.E.G. H., Salt Lake City, 1994
- East Lakes Division of the American Association of Geographers: Kent State U., 1971; U. of Pittsburgh, 1973; Edinboro U. of Pennsylvania, 1974; Brock U., 1975; U. of Michigan, 1976; U. of Western Ontario, 1980
- Middle States Division of the American Association of Geographers: Rochester, 1981; Montclair State College, 1982; West Point, 1983; (with F. Csillag; Dave Smith) Syracuse U., 1992 (2)
- Southwest Division of American Association of Geographers: Denton, 2016 (4)
- Pittsburgh Modelling and Simulation Conference: U. of Pittsburgh (14<sup>th</sup>), 1983

- Pennsylvania Academy of Sciences: Carlow College, Pittsburgh, 1971; Lafayette College, 1972
- Pennsylvania Council for Geographic Education: Indiana U. of Pennsylvania, 1971
- Ontario Division of the Canadian Association of Geographers: Ryerson Polytechnical U., 1978
- ISOLDE 81, Skodsborg, Denmark, 1981
- CLAG, SUNY/Buffalo, 1981
- "Spatial Distributions and Pattern Analysis" Colloquium: SUNY/Buffalo, 1981
- International Geographic Information Systems Symposium: The Research Agenda, Crystal City, VA, 1987
- Western Regional Science Association: San Diego, 1989; The Big Island, 2016
- International Workshop on Spatial Econometrics and Statistics: Rome, 2006 (2)
- Jean Paelinck Seminar on Spatial Econometrics: Zaragoza, Spain (2<sup>nd</sup>), 2006
- American Society of Agronomy annual meeting: (with D. Long, S. DeGloria, G. Carlson, and G. Nielsen)
   Denver, 1991
- Northeast Regional Science Association: (with L. Layne and A. Sone) Binghamton, NY, 1996
- American Society of Tropical Medicine and Hygiene: New Orleans, 2008

#### **PANELS**

- American Association of Geographers annual meeting: Portland (83rd), 1987; Phoenix (84th), 1988;
   Baltimore (85th), 1989 (2); Toronto (86th), 1990; Chicago (102<sup>nd</sup>), 2006; Chicago (111<sup>th</sup>), 2015 (2)
- Geocomputation: Wuhan, 2013

# PROFESSIONAL MEMBERSHIPS AND ACTIVITIES

# Offices Held

- elected Councilor at Large, Regional Science Association International (2015-17)
- Chair of the Steering Committee, International Spatial Accuracy Research Association (ISARA; 2014present)
- vice president (1998-99), president (1999-2000), past president (2000-01), Syracuse Chapter of Sigma Xi
- elected chairman of the MM&QM Specialty Group, AAG (1987-1988)
- elected Board Member of the MM&QM Specialty Group, AAG (1989-1991)
- elected Board Member of the Microcomputer Specialty Group, AAG (1993-1996)
- elected Board Member, Syracuse Chapter of the American Statistical Assn., (1991-92; 1993-95)
- Secretary-treasurer, Syracuse Chapter of the American Statistical Association, (2000-2003)

# Memberships

- The American Association of Geographers
- The Regional Science Association
- The American Mathematical Society
- The American Statistical Association
- The Mathematical Association of America
- The Fulbright Association
- Sigma Xi
- American Association for the Advancement of Science
- Spatial Econometrics Association

# **Meeting Organization Activities**

- Space-time integration in Geography and GIScience, American Association of Geographers, Seattle, 2011
- Program Committee for the 35th Regional Science Association, Toronto, 1988
- NATO Advanced Studies Institute: Chateau de Bonas, France, 1980; San Miniato, Italy, 1982; Hanstholm, Denmark, 1985
- Mathematical Models & Quantitative Methods Specialty Group, Association. of American Geographers: San Antonio, 1982; (with D. Mark) West Point, 1983; Washington, D. C., 1984; (with L. Anselin) Phoenix, 1988
- American Association of Geographers annual meeting: Milwaukee, 1974 (see Vol. 7, 1975, A. A. G. <u>Proceedings</u>, pp. 297-298); Baltimore, 1989 (2; 1 with Grant Thrall); San Diego, 1992; Las Vegas, 2009 (2);

- Washington, DC, 2010 (2); Seattle, WA, 2011 (2); New York City, 2012 (2); Los Angeles, 2013 (2); Tampa, 2014 (2)
- North American Regional Science Association annual meeting: (with L. Anselin) New Orleans, 1991 (2); Niagara Falls, Canada, 1994; Cincinnati, 1995
- Dept. of Geography Colloquium entitled "Spatial Distributions and Pattern Analysis" under the joint auspices of NATO Scientific Affairs Division, SUNY/Buffalo, AAG MM&QMSG, and IGU: WGSAMM, 1981.
- Syracuse U. Department of Geography Symposium, 1989; (with Jim Newman) 1991.
- (with M. Monmonier, S. DeGloria, L. Herrington, R. McMaster) "NYSPGIA Minnowbrook workshop," Minnowbrook Conference Center (Syracuse U.), Blue Mountain Lake, 1990
- Canadian Association of Geographers: Montreal, 1995
- (with R. Tata) CLAG, SUNY/Buffalo, 1981
- (with J. Pipkin, C. Willmott) Middle States Division, Assn. of Am. Geographers, Rutgers U., 1979

### Conference Special Session (Co-)Organizer

American Association of Geographers annual meeting: San Francisco (103<sup>rd</sup>), 2007 (2); Boston (104<sup>th</sup>), 2008 (2); Las Vegas (105<sup>th</sup>), 2009 (2); Washington, DC (106<sup>th</sup>), 2010 (2); Seattle, WA (107<sup>th</sup>), 2011 (2); New York City (108<sup>th</sup>), 2012 (2); Los Angeles (109<sup>th</sup>), 2013 (2); Tampa (110<sup>th</sup>), 2014 (2); Chicago (111<sup>th</sup>), 2015 (2)

### Conference Session Chairperson

- American Association of Geographers annual meeting: Los Angeles, 1981; Toronto, 1990; Los Angeles, 2002;
   Washington, DC, 2010 (2); Seattle, WA, 2011; New York City, 2012; Los Angeles, 2013; Tampa, 2014
- Regional Science Association annual meeting: Toronto, 1988; Santa Barbara (CA), 1989; New Orleans, 1991; Niagara Falls, Canada, 1994; Cincinnati, 1995; Boston, 1998; Atlanta, 2013
- Geocomputation: 2015 (4)
- Spatial Statistics: Enschede, 2011; Columbus, 2013
- ISPRS-IGU International Conference: Toronto, 2014
- Spatial Econometrics Association: Cambridge, 2007
- 10<sup>th</sup> International Symposium on Spatial Accuracy Assessment in Natural Resources and Environmental Sciences (Accuracy 2012), Florianópolis, SC, Brazil
- Spatial Econometrics and Regional Economic Analysis Conference, Lodz, Poland
- Geocomputation: Wuhan, 2013
- Quantitative Methods Study Group, Institute of British Geographers meeting: U. of Sheffield, 1983
- Western Regional Science Association: San Diego, 1989
- Sixth European Colloquium on Quantitative and Theoretical Geography, Chantilly, France, 1989
- 1992 International Geographical Union Commission on Mathematical Models Symposium, Princeton U.
- European Congress of the Regional Science Association, Louvain-la-Neuve, Belgium, 1992
- International Workshop on Spatial Econometrics and Statistics: Rome, 2006
- World Conference of the Spatial Econometrics Association: 2009
- Jean Paelinck Seminar on Spatial Econometrics: Zaragoza, Spain, 2006
- NATO ARW, Amsterdam, 1983
- "Spatial Distributions and Pattern Analysis," Session 2, Dept. of Geography, SUNY/Buffalo, 1981
- "Complexity, Evolution and Learning," Institute Para Limes, Barchem, The Netherlands, 2007

# Conference Paper Discussant

- Session in Honor of Walter Isard, "Distance inputs and spatial markets," by M. Beckmann, paper presented to the Regional Science Association, Toronto, 1988
- Regional Science Association annual meeting: Baltimore, 1987; Toronto, 1988; Santa Barbara (CA), 1989;
   New Orleans, 1991; Houston, 1993; Niagara Falls, Canada, 1994; Santa Fe, 1998; Montreal, 1999; Chicago, 2000; Charleston, 2001; San Juan, PR, 2002; Seattle, 2004; Las Vegas, 2005; Toronto, 2006
- American Association of Geographers annual meeting: Phoenix, 1988; Baltimore, 1989 (2); Denver, 2010
- 1992 Symposium of the International Geographical Union Commission on Mathematical Models: Princeton U. (2)
- European Congress of the Regional Science Association: Louvain-la-Neuve, Belgium, 1992
- PRSCO/ANZRSA Conference presentation, Wellington, NZ, 1997

- International Workshop on Spatial Econometrics and Statistics: Rome, 2006
- World Conference of the Spatial Econometrics Association: 2009
- moderator for Accuracy 2000 session, Amsterdam

# Conference paper/workshop selection reviews

- Spatial Accuracy: 1998 (8) 2002 (8) 2008 (5) 2010 (5) 2012 (8) 2014 (5) 2016 (2)
- ISPRS & IGU: 2013 (4)
- GIScience: 2012 (3) 2014 (7)
- ICSDM: 2011 (7)ICAGAM: 2011 (2)StatGIS: 2009 (2)
- Geocomputation: 2013 (7)
- Spatial Statistics: 2011 (17) 2013 (37)
- Spatial Econometrics Association: 2011 (8)
- Spatial Data Handling: 2016 (6)
- IVAPP 2017: 2016 (3)

# Journal Papers, Book Chapters, and Research Projects Reviewed

- Acta Tropica: 2009 2010 2012
- American Economic Review: 1991
- American J. of Political Science: 2006 (2)
- American J. of Preventive Medicine: 2004
- American J. of Tropical Medicine and Hygiene: 2006 (2)
- Annals of Applied Statistics 2011
- Annals of Operations Research: 2002 (2) 2011
- Annals of Regional Science: 1990 1991 1994 1998 (2) 2013 (2) 2014 (2)
- Annals, American Association of Geographers: 1981-90 (20) 1993-99 (3) 2000-10 (9) 2011 (3) 2013 2014 2015 (2) 2016 (3)
- BioMed Research International: 2015
- Bridging Scales in Soil Physics (edited volume): 2002
- Canadian J. of Regional Science: 1998
- Cartography and Geographic Information Systems: 1993 2014 (4) 2015
- Communications in Statistics: 1994 1996
- Computational and Applied Mathematics: 2009
- Computational Statistics & Data Analysis: 2001 2008 2009 2010
- Computers & Geosciences: 1995 2005 (2)
- Computers, Environment and Urban Systems: 1997 1998 (2) 1999 2000 2004 (2) 2007 (2) 2008 2016
- Demographic Research: 2012 2015
- Demography: 1990
- Discrete Dynamics in Nature and Society: 2010
- Ecography: 2008
- Ecological Modeling: 2005
- Ecology: 2004 2007
- Econometric Theory 2011
- Economic Geography: 1982-87 (4) 1992 1993
- EcoTrack: 2009
- Electoral Studies: 2010 2012 (2) 2014
- Empirical Economics: 2006 2007
- Encyclopedia of Social Measurement: 2002
- Environment & Planning A: 1988-90 (5) 1992-99 (7) 2000-10 (16) 2011 (2) 2012 (3)
- Environment & Planning B: 2000 (2) 2004 2005 2009 (2) 2010 (2) 2011 2012 2016
- Environment & Planning D: Government & Policy: 1984
- Environmental and Ecological Statistics: 2007 2008
- Environmental Geochemistry and Health: 2012

- Environmetrics: 2015
- ESAIM: Probability and Statistics: 1998
- Estadistica Española 2011
- European J. of Operations Research: 1981 (2)
- Geoderma: 1991 1997
- Geographical & Environmental Modelling: 1997 1999
- Geographical Analysis: 1977-80 (5) 1981-90 (34) 1992-99 (6) 2000-10 (17) 2012 (2) 2013
- Geography Research Forum: 1987
- GeoJournal: 2014
- Growth & Change: 1987 1998 (2) 2002 2006 2007
- Handbook of Agricultural Statistics: 1998
- Historical Methods: A J. of Quantitative and Interdisciplinary History: 2016 (2)
- IMaGe: 1987
- International J. of Geographical Information Systems/Science: 1988-98 (10) 2000 (2) 2003 2004 2010 2015 (2)
- International J. of Health Geographics: 2004 2006 2007 2013 2016 (2)
- International J. of Information Technology and Decision Making: 2016
- International J. of Remote Sensing: 2006
- International Regional Science Review: 1986 1996 2005 2011
- J. of Applied Ecology: 2007
- J. of Geographic Information Science
- (J. of) Geographical Systems: 1993-99 (5) 2000-10 (21) 2012(2) 2013 (4) 2014 (2) 2015 (2)
- J. of Health and Place: 2004 2006
- J. of Historical Geography: 2001 2005
- J. of Latin American Geography: 2006 2014
- J. of Latin American Studies: 2004
- J. of Public Health Management: 2001
- J. of Quantitative Criminology: 2013 (2)
- J. of Regional Science: 1987-89 (5) 1992-96 (3) 2002 2007 (2) 2013 (2)
- J. of Statistical Computation and Simulation: 1992 2005
- J. of Stochastic Environmental Research & Risk Assessment: 2000 2006 (7) 2007 2009 (2) 2010
- J. of the American Statistical Association: 2001 2009
- J. of Time Series Analys8is: 2013
- J. of Transport Geography: 1999
- Landscape and Urban Planning 2012
- Letters in Spatial and Resource Sciences: 2007 2008 2014
- Linear Algebra and Its Applications: 1996 1997
- Malaria Research and Treatment: 2015
- Marine Ecology Progress Series: 2013
- Methods in Ecology and Evolution: 2014 2015
- Ontario Geography: 1985
- Papers & Proceedings, RSA/Papers in Regional Science: 1984-90 (3) 1993-99 (5) 2000-07 (11) 2011 (2) 2014 2015
- Photogrammetric Engineering and Remote Sensing: 1995
- PLOS ONE: 2014
- Population, Space and Place: 2012
- Professional Geographer: 1979-80 (2) 1982-89 (5) 1992 2005 2007 2011 2014
- Quaestiones Geographicae: 2015
- Region: 2016 (2)
- Regional Science & Urban Economics: 1991 2006
- Remote Sensing of Environment: 2015
- Risk Analysis: 2006 2007
- Science: 1980
- Sistemi Urbani: 1992 (2)

- Social Networks: 2007 2008 2011Social Science and Medicine: 2004
- Social Science Research: 1981Sociological Methodology: 1999
- Spatial Economic Analysis: 2010 2011 (3) 2012 2014 (2) 2015 (2)
- Spatial Statistics: 2012 2013 (6) 2014 (6) 2015 (3) 2016
- Statistical Methodology: 2006The American Naturalist: 1980
- The Canadian Geographer: 1985 1989
  The Operational Geographer: 1989 1992 (6)
- The Statistician: 1993
- Transactions in GIS: 2010 2011 2014 (2)Transportation Review Board: 2000
- Urban Geography: 1980 1985 1988 (2) 1994 (2) 1995 2000 2002 2003 2006 (2) 2007 (2)
- URISA J.: 2000 (2) 2001 2003 2005
  EPA pre-journal submission: 2005
  CLAG Yearbook: 1982 (12), 1994
- Complexity, Evolution and Learning: in Search of Simplicity: 2008
- Advances in Spatial Science: 2008Spatial Analysis Handbook: 2008
- National Science Foundation: 1980-90 (15) 1991-1999 (32) 2000-2009 (115) 2010 2011 2012 2013 (17) 2014 (22) 2015 (4) 2016 (12)
- NATO Scientific Affairs Advisory Board: 1982-90 (4) 1991
- Marie Currie Individual Fellowship: 2005
- Rockefeller Foundation: 1996
- Research Grants Council (RGC) of Hong Kong: 2012 2013 2014 2015 (2) 2016 (2)
- SSHRC of Canada: 1987 1997 2006 2013 2104
- NSERC of Canada: 2005 2014 2015
- Poland National Science Centre: 2014 2016
- German Research Foundation: 2016National Geographic: 2004 2006 2007
- USEPA: 1994 (17)
- USEPA Technical Report series: 1990 1991
- UK Economic and Social Research Council: 1993
- College of William & Mary (AidData Center): 2015
- Cornell Theory Center (NSF supercomputer center): 1994
- MCUS: 2004 (4)

# Book Manuscripts/New J. Proposals Reviewed

- Martinus Nijhoff, 1987, Advanced Studies in Theoretical and Applied Econometrics Series
- The Gilford Press, endorsement of G. Barber (1988), Elementary Statistics for Geographers.
- Pergamon Press, 1989
- Oxford University Press, 1991
- Prentice Hall, 1993
- Wiley, 1994, 2004
- Springer-Verlag, 1999
- Duxbury, 1999
- Arnold, 2002
- CRC Press, 2008 2009
- Elsevier/Academic, 2005 2016
- Palgrave/Macmillan, 2015 2016

#### **External Evaluations**

- promotion to full professor, SUNY/Buffalo (1986), U. of Tennessee (1987), U. of Toronto (1990), Queen's U./Canada (1995), U. of Iowa (1997), McGill U. (2002), U. of Alaska (2006), U. of Utah (2007), U. of North Texas (2007), Wichita State U. (2008), UC/Santa Barbara (2011), U. of South Florida College of Public Health (2011), U. of Arizona (2012), McMaster (2013)
- tenure and promotion, U. of Florida (1992), U. of Georgia (1992, 1993), Indiana U. (1994), McGill U. (1997), SUNY/Health Science Center at Syracuse (1998), Macalester College (1999), Syracuse U. (2; 2003), UC/Santa Barbara (2004), Michigan State U. (2004), McMaster U. (2006), Purdue U. (2008), U. of Iowa (2009), U. of Miami Medical School (2011), SUNY/Buffalo (2013), Virginia Commonwealth U. School of Medicine (2016)
- Faculty university honors:

Excellence in Scholarship: SUNY Chancellor's Citation (2006)

Study leave: George Mason U. (2007)

Professor and Center Director: Ohio State U. (2009)

Crossing-of-pay-bands professor: Chinese University of Hong Kong (2011, 2016)

Distinguished Research Master honor: Louisiana State U.

Professor Extra-ordinaire: Université Catholique de Louvain (2009)

The Newton International Scholarship: to go to Cambridge U. from U. of Tokyo (2008, 2009)

COPH early career award, University of South Florida (2012)

USF College of Public Health Interdisciplinary Team Award program (2014)

Departmental

Department of Geography, Hunter College, CUNY (2016)

# Contributions to Professional Reports and Publications

- book endorsement: Scale in Spatial Information and Analysis, J. Zhang, P. Atkinson and M. Goodchild, CRC Press
- 1980-Assn. of American Geographers, Quantitative Methods and Mathematical Models Specialty Group's advisory memorandum to the Geography & Regional Science Program, National Science Foundation
- 1985-Geography and Regional Science Program, National Science Foundation
- "Geographers," by Chronicle Guidance Publications, January 1997 release
- "White paper on research-based education," as representative of Syracuse U. at UCGIS meetings, Bar Harbor, ME, 1997
- listing of National Academy of Sciences AAG members in *Guide to Programs in Geography/AAG Handbook* and Directory of Geographers 1997-1998
- · external assessment for establishing the Center for Geographic Analysis, Harvard University

# **UNIVERSITY OF TEXAS @ DALLAS SERVICE**

# **University Service**

- Committee on Qualifications of Academic Personnel, 2012/13-2014/15
- Advisory Committee on Research, 2013/14
- ad hoc committee member for promotion to full professor case, 2006/7, 2013/14 (chair), 2014/15
- ad hoc committee member for tenure and promotion to associate professor case, 2014/15
- annual Compliance review, 2005-present
- dissertation defense chair, 2006 (Geosciences), 2008 (Literary Studies and Historical Studies)
- Information Security Advisory Committee, 2015/17
- Information Resources Security, Planning, and Policy Committee, 2007/09
- Intellectual Property Committee, 2009/10-2012/13
- invited "field tester" for new class on campus safety and violence prevention, 2008
- PI for UT System Graduate Programs Initiative pre-proposal, and invited full-proposal
- Presentation at the IIE Research & New Venture Showcase: Geospatial Sciences, 2008
- Execution of a Memorandum of Understanding between UTD and Wuhan University, 2012/13

# School Service

- EPPS Dean's Search Committee, 2012
- GEOG/GIS Program Committee, 2005-present

- Faculty Advisory Committee (FAC), ex officio, 2005-09; Dean's appointment, 2009-present
- School Academic Review and Scholarship Committee, 2010/11, 2013/14-2014/15
- GISC Associate Unit Head, 2007-2015
- Academic Review and Scholarship Committee, 2015, 2016
- GIS Program Director Search Committee, 2006/7
- Chair of Search Committee for new GISC Program Head, 2007 & 2008
- Graduate Programs Advisory Committee
- Panel member of the JSSR "How to publish" roundtable/workshop, 2007, 2008, 2014
- Hosted colloquium speaker: 2007 (1), 2008 (2), 2009 (2), 2013 (inaugural lecture, Irving J. Hock Interdisciplinary Speaker Series), 2014
- Hosted workshop, 2009
- Hosted visiting international scholars: 2009, 2010, 2013(2), 2014(2), 2015(2)

# Community

- leader, Green Acres Cub Scout Pack, 1980-81
- helped a South Vietnam refugee family resettle to Syracuse
- co-chaperoned Latin Day at Syracuse U. for local high school students
- member of the Syracuse Regional Lead Task Force, 1996-2003
- science judge at the MOST Science Fair, junior division, Onondaga Community College, 2000-01