

**1. Python Spatial Analysis Library (PySAL) Workshop [Workshop]
Wednesday | 8:00 am-5:00 pm | Symphonie 2A**

- *Python Spatial Analysis Library (PySAL) Workshop.....*Elijah Knapp, University of California - Riverside; Sergio Rey, University of California - Riverside

**2. The Regional Science Academy: Advanced Brainstorm Carrefour (ABC) -
Words of Welcome [Special Session]
Wednesday | 8:55 am-9:00 am | Symphonie 4**

**3. The Regional Science Academy ABC - Session I [Special Session]
Wednesday | 9:00 am-10:30 am | Symphonie 4**

Organizers: Louafi Bouzouina, ENTPE; Pui Hang Wong, Maastricht University; Karima Kourtit, Open University, The Netherlands; Peter Nijkamp, Open University, Heerlen, The Netherlands; Tomás Lopes Cavalheiro Ponce Dentinho, Universidade dos Açores; Neil Reid, University of Toledo

President: Peter Nijkamp, Open University, Heerlen, The Netherlands

- *Sustainable Tourism and Green Total Factor Productivity: A Spatial-Econometric Assessment of Chinese Regions.....*Peter Nijkamp, Open University, Heerlen, The Netherlands; Lei Zhao, University of Technology: Hangzhou; Jamie Chen, Dakota State University
- *Structural Mobility Patterns and COVID-19 Incidence: A Regional Analysis of the Second Wave in the Netherlands.....*Bart Roelofs, University of Groningen; Dimitris Ballas, Groningen University; Hinke Haisma, University of Groningen; Arjen Edzes, University of Groningen
- *The effect of COVID-19 on long-distance transport services in France.....*Florent Laroche, LUNAM Université, F-Nantes

**4. The Regional Science Academy ABC - Session II [Special Session]
Wednesday | 10:45 am-12:45 pm | Symphonie 4**

Organizers: Louafi Bouzouina, ENTPE; Pui Hang Wong, Maastricht University; Karima Kourtit, Open University, The Netherlands; Peter Nijkamp, Open University, Heerlen, The Netherlands; Tomás Lopes Cavalheiro Ponce Dentinho, Universidade dos Açores; Neil Reid, University of Toledo

President: Jaewon Lim, University of Nevada - Las Vegas

- *Which factors influence mobility change during COVID-19 in Germany? Evidence from German county data.....*Andree Ehlert, Harz University of Applied Science; Jan Wedemeier, Hamburg Institute of International Economics
- *Will the COVID-19 hinder or aid the transition to sustainable urban mobility? Spotlight on Portugal's largest urban agglomeration.....*Patricia Melo, James Hutton Institute
- *Evolution of urban mobility behaviour in Brussels as a result of the COVID-19 pandemic.....*Alice de Séjournet, Université catholique de Louvain; Cathy

Macharis, Vrije Universiteit Brussel; Sara Marie Tori, vrije universiteit brussel; Lieselot Vanhaverbeke, Vrije Universiteit Brussel

- *What drives the changes in public transport use in the context of the Covid-19 pandemic? Highlights from Lyon metropolitan area.....*Ali El Zein, University of Balamand; Adrien Beziat, Université Gustave Eiffel; Pascal Pochet, ENTPE; Olivier Klein, ENTPE; Stephanie Vincent, ENTPE

5. The Regional Science Academy ABC - Session III-A [Special Session] Wednesday | 1:30 pm-3:30 pm | Symphonie 4

Organizers: Louafi Bouzouina, ENTPE; Pui Hang Wong, Maastricht University; Karima Kourtit, Open University, The Netherlands; Peter Nijkamp, Open University, Heerlen, The Netherlands; Tomás Lopes Cavalheiro Ponce Dentinho, Universidade dos Açores; Neil Reid, University of Toledo

Presider: Tomás Lopes Cavalheiro Ponce Dentinho, Universidade dos Açores

- *Residential preferences, telework perceptions, and the intention to telework: insights from the Lisbon Metropolitan Area during the COVID-19 pandemic.....*Joao De Abreu e Silva, Instituto Superior Técnico
- *The increase in online shopping during COVID-19: Who is responsible, will it last, and what does it mean for cities.....*Mischa Young, Universite de l'Ontario Francais; Jaime Soza-Parra, TU Delft; Giovanni Circella, Univ. of California
- *Browsing for food: Will COVID-induced on-line grocery delivery persist?.....*Hannah Younes, Rutgers University; Robert Noland, Rutgers University; Wenwen Zhang, Rutgers University
- *On the bumpy road to recovery: resilience of transit ridership during COVID-19 in 15 European cities.....*Ouassim Manout, ENTPE; Louafi Bouzouina, ENTPE; Karima Kourtit, Open University, The Netherlands; Peter Nijkamp, Open University, Heerlen, The Netherlands

6. The Regional Science Academy ABC - Session III-B [Special Session] Wednesday | 3:45 pm-5:00 pm | Symphonie 4

Organizers: Louafi Bouzouina, ENTPE; Pui Hang Wong, Maastricht University; Karima Kourtit, Open University, The Netherlands; Peter Nijkamp, Open University, Heerlen, The Netherlands; Neil Reid, University of Toledo; Tomás Lopes Cavalheiro Ponce Dentinho, Universidade dos Açores

Presider: Tomás Lopes Cavalheiro Ponce Dentinho, Universidade dos Açores

- *Behaviour and route choice of cyclists in corona times: modelling Snifferbike experiments in the Netherlands.....*John Osth, OsloMet; Umut Turk, Abdullah Gul University; Karima Kourtit, Open University, The Netherlands; Peter Nijkamp, Open University, Heerlen, The Netherlands
- *Detecting and measuring spatial spillover effects and heterogeneity using interpretable tree-based machine learning approaches: an illustration using the Boston housing dataset.....*Guney Celbis, Yeditepe University; Pui Hang Wong,

Maastricht University; Karima Kourtit, Open University, The Netherlands; Peter Nijkamp, Open University, Heerlen, The Netherlands

Registration [Registration]

Wednesday | 4:00 pm-8:00 pm | Grand Salon Opera Foyer

Words of Welcome & RSAI Fellows Lecture [Special Session]

Wednesday | 7:00 pm-8:00 pm | Grand Salon Opera B

Organizer: John Sporing, NARSC

President: Neil Reid, University of Toledo

- *TO BE ANNOUNCED.....*

NARSC Icebreaker Reception [Informal meeting]

Wednesday | 8:00 pm-9:00 pm | Grand Salon Opera Foyer

Coffee [Informal meeting]

Thursday | 7:30 am-8:30 am | Grand Salon Opera Foyer

Registration & Exhibits [Registration and Exhibits]

Thursday | 7:30 am-5:30 pm | Grand-Salon Opera Foyer

7. Housing I: The Impact of Proximity [Formal Paper Session]

Thursday | 8:00 am-10:00 am | Soprano B

President: Elijah Knaap, University of California - Riverside

- *Close competition: The contagion effect of neighborhood listings on seller motivation.....*Mitchell Livy, California State University - Fullerton; Nicholas Irwin, University of Nevada - Las Vegas
- *The impact of affordable housing developments on the values of nearby residential properties.....*Amanda Liddle, Colorado Department of Health Care Policy and Financing; Jeffrey Zax, University of Colorado - Boulder
- *Segregated by Design? The Effect of Street Network Topological Structure on the Measurement of Residential Segregation.....*Elijah Knaap, University of California - Riverside; Sergio Rey, San Diego State University

Discussants:

- Elijah Knaap, University of California - Riverside
- Mitchell Livy, California State University - Fullerton
- Jeffrey Zax, University of Colorado - Boulder

8. Regional/Rural Development I - Rural Health Disparities [Formal Paper Session]

Thursday | 8:00 am-10:00 am | Symphonie 3A

Organizers: Sarah Low, University of Illinois at Urbana-Champaign; Stephan Weiler, Colorado State University

President: Kelsey Conley, U.S. Department of Agriculture

- *The Growing Rural Health Disadvantage: The Importance of Changes in Health Behavior.....*David McGranahan, U.S. Department of Agriculture; Elizabeth Dobis, USDA Economic Research Service
- *Rural Labor Market Consequences of Rising Prime-Age Mortality.....*Sarah Low, University of Illinois at Urbana-Champaign; Mark White, University of Missouri; Andrew Van Leuven, Oklahoma State University
- *Changing Markets for Pharmacies Across the Rural-Urban Divide.....*Melissa Kono, University of Wisconsin - Madison; Steven Deller, University of Wisconsin - Madison
- *Changes in Rural Health Care Access, 2000-18.....*Elizabeth Dobis, USDA Economic Research Service
- *Minding the Gap: Decomposing Rural-Urban Differences in Prime Working Age Natural Cause Mortality.....*Kelsey Conley, U.S. Department of Agriculture

Discussants:

- Kelsey Conley, U.S. Department of Agriculture
- Elizabeth Dobis, USDA Economic Research Service
- David McGranahan, U.S. Department of Agriculture
- Sarah Low, University of Illinois at Urbana-Champaign
- Melissa Kono, University of Wisconsin - Madison

**9. Climate Change I: Perception, Behavior, & Policy [Formal Paper Session]
Thursday | 8:00 am-10:00 am | Symphonie 4A**

President: Amit Batabyal, Rochester Institute of Technology

- *Peer Effects on Climate Change Beliefs.....*Xialing Zhao, Pennsylvania State University; Linlin Fan, Pennsylvania State University; Yilan Xu, University of Illinois - Urbana-Champaign
- *Just Clean Air.....*Gina Yeonkyeong Park, Cornell University
- *How Climate Change Affects the Ganges and Water Pollution by Tanneries in Kanpur.....*Amit Batabyal, Rochester Institute of Technology; Karima Kourtit, Open University, The Netherlands; Peter Nijkamp, Open University, Heerlen, The Netherlands

Discussants:

- Amit Batabyal, Rochester Institute of Technology
- Yilan Xu, University of Illinois - Urbana-Champaign
- Gina Yeonkyeong Park, Cornell University

**10. Rural Innovation from Three Perspectives: Case Study, Microdata, and Meso-level [Special Session]
Thursday | 8:00 am-10:00 am | Soprano A**

Organizer: Timothy Wojan, National Science Foundation

President: Stephan Goetz, Pennsylvania State University

- *Innovation in Rural Areas: Examples from Canada and the United States.....*David Freshwater, OECD
- *Is User Entrepreneurship More Inclusive Entrepreneurship? Evidence from Two Micro Datasets.....*Luyi Han, Pennsylvania State University; Zheng Tian, Pennsylvania State University; Timothy Wojan, National Science Foundation; Anil Rupasingha, Economic Research Service; Stephan Goetz, Pennsylvania State University
- *Effects of Cloud Services Adoption on Innovation: Evidence from the Annual Business Survey.....*Luyi Han, Pennsylvania State University; Timothy Wojan, National Science Foundation; Stephan Goetz, Pennsylvania State University
- *SAIRE sans Satire? The Promise and Perils of Small Area Innovation Rate Estimation.....*Zheng Tian, Pennsylvania State University; Luyi Han, Pennsylvania State University; Timothy Wojan, National Science Foundation; Stephan Goetz, Pennsylvania State University

Discussants:

- Stephan Goetz, Pennsylvania State University
- Heather Stephens, West Virginia University
- Brian Whitacre, Oklahoma State University
- Mark Brown, Statistics Canada

11. Regional Development I [Special Session]

Thursday | 8:00 am-10:00 am | Soprano C

President: Roberto Dellisanti, Politecnico di Milano

- *Convergence or Divergence? Analysis of Regional Economic Disparities in Central China from the Perspective of Space.....*Yongming Huang, Wuhan University; Yuhang Xiang, Wuhan University; Xue Dong, Wuhan University; Yanan Zhang, Wuhan University; Xin Li, Wuhan University
- *Do People Follow Jobs or Do Jobs Follow People? A China-based Study.....*Wenzheng Li, Cornell University; John Carruthers, Cornell University
- *RELIGIOUS DIVERSITY AND ECONOMIC PERFORMANCE IN BRAZILIAN MUNICIPALITIES: Analysis based on Weber's work ethics.....*Suzana Quinet Bastos, Federal University of Juiz de Fora; Sandro de Freitas Ferreira, Federal University of Juiz de Fora; Gabryella Magalhães Cerqueira Silva, Federal University of Juiz de Fora
- *CCIs and local economic growth nexus: Territorial mediating factors.....*Roberto Dellisanti, Politecnico di Milano

Discussants:

- Roberto Dellisanti, Politecnico di Milano
- Yuhang Xiang, Wuhan University
- Wenzheng Li, Cornell University
- Suzana Quinet Bastos, Federal University of Juiz de Fora

12. COVID-19 pandemic, transportation, and impacts on urban areas. [Special Session]

Thursday | 8:00 am-10:00 am | Symphonie 2A

Organizers: Dimitra Pyrialakou, West Virginia University; Lisa Lorena Losada Rojas, University of Toronto; Eleni Bardaka, North Carolina State University

Presiders: Eleni Bardaka, North Carolina State University; Lisa Lorena Losada Rojas, University of Toronto;

- *Could urban form moderate mental distress due to the COVID-19 pandemic? Evidence from Jakarta, Indonesia.....*Usep Nugraha, Universitas Indonesia; Budy P. Resosudarmo, Australian National University; Rus'an Nasrudin, Universitas Indonesia
- *Examining COVID-19 Vaccine Access Profiles through Spatial Microsimulation and Activity Allocation.....*Joseph Tuccillo, Oak Ridge National Laboratory; James Gaboardi, Oak Ridge National Laboratory
- *COVID-19 and Commuting: Evidence from California's San Francisco Bay and Central Valley Regions.....*Bonnie Wang, University of Southern California; Seva Rodnyansky, Occidental College; Marlon Boarnet, University of Southern California; Andre Comandon, University of Southern California
- *Travel Disparity in the Bipartite Commute Network during the COVID-19 Pandemic: A case of Seoul.....*Jaeyeon Lee, Seoul National University; Jungyul Sohn, Seoul National University

Discussants:

- Joseph Tuccillo, Oak Ridge National Laboratory
- Bonnie Wang, University of Southern California
- Jaeyeon Lee, Seoul National University
- Usep Nugraha, Universitas Indonesia

Panelists:

- Usep Nugraha, Universitas Indonesia
- Joseph Tuccillo, Oak Ridge National Laboratory
- Bonnie Wang, University of Southern California
- Jaeyeon Lee, Seoul National University

NARSC Council Meeting (by invitation only) [Business Meeting]

Thursday | 8:00 am-10:00 am | Ovation

Coffee [Informal meeting]

Thursday | 10:00 am-10:30 am | Grand Salon Opera Foyer

13. NARSC Presidential Lecture [Special Session]

Thursday | 10:30 am-12:30 pm | Grand Salon Opera

Organizer: John Sporing, NARSC

President: John Sporing, NARSC

- *Assessing Older Adult Mobility Using Wearable Technology.....*Bruce Newbold, McMaster University

14. Housing II: Residential Property Values [Formal Paper Session]

Thursday | 1:30 pm-3:30 pm | Soprano B

President: Mitchell Livy, California State University - Fullerton

- *Do residential property tax incentive programs raise home prices and contribute to gentrification? Quasi-experimental evidence from Columbus, Ohio.....*Nick Messenger, Ohio State University
- *Did Unilateral Divorce raise house prices in Europe?.....*Rafael González-Val, Universidad de Zaragoza; Miriam Marcén, Universidad de Zaragoza
- *Measuring the Value of Urban Forestry in the Housing Market in Seattle, WA.....*Hanxue Wei, Cornell University
- *Who values urban open spaces? Investigating heterogeneity in capitalization of open space by housing type, open space class, and demographics.....*Mitchell Livy, California State University - Fullerton; Liqing Li, California State University - Fullerton

Discussants:

- Mitchell Livy, California State University - Fullerton
- Nick Messenger, Ohio State University
- Rafael González-Val, Universidad de Zaragoza
- Hanxue Wei, Cornell University

15. Regional Development II (Session Sponsored by the International Journal of Urban Sciences) [Formal Paper Session]

Thursday | 1:30 pm-3:30 pm | Soprano C

President: Andrea Ascani, Gran Sasso Science Institute (GSSI)

- *Capital Shocks and the Effects of the Global Financial Crisis in European Regions and Cities.....*Michiel Daams, University of Groningen; Philip McCann, University of Manchester; Paolo Veneri, OECD; Richard Barkham, CBRE Global Investors

- *Spatial Spillovers and Displacement Effects in Cohesion Policy: Evidence from Italian NUTS-3 regions.....*Debora Gambina, University of Palermo; Fabio Mazzola, University of Palermo
- *Digital transformations, global value chains, and regional growth in Europe: The MASST5 model.....*Roberta Capello, Politecnico di Milano; Andrea Caragliu, Politecnico di Milano
- *Networked FDI, spillovers and regional innovation capacity.....*Andrea Ascani, Gran Sasso Science Institute (GSSI); Luca Bettarelli, University of Milan Bicocca; Laura Resmini, University of Milan Bicocca

Discussants:

- Andrea Ascani, Gran Sasso Science Institute (GSSI)
- Michiel Daams, University of Groningen
- Fabio Mazzola, University of Palermo
- Andrea Caragliu, Politecnico di Milano

**16. Natural Resources [Formal Paper Session]
Thursday | 1:30 pm-3:30 pm | Symphonie 1**

Presider: Mark Thissen, Netherlands Environmental Assessment Agency

- *The impact of the Mariana and Brumadinho dam disasters on credit constraint.....*Wilson Neto, UFJF; Flavia Chein, Federal University of Juiz de Fora
- *Analysis of local energy supply and demand for woody biomass in Japanese municipalities.....*Kazuyoshi Nemoto, Tohoku University; Toshihiko Nakata, Tohoku University
- *Regional competitive opportunities and threats of fossil fuel cost changes and the role of decarbonization.....*Sacha den Nijs, Free University, Amsterdam; Mark Thissen, Netherlands Environmental Assessment Agency

Discussants:

- Mark Thissen, Netherlands Environmental Assessment Agency
- Flavia Chein, Federal University of Juiz de Fora
- Kazuyoshi Nemoto, Tohoku University

**17. Regional/Rural Development II - Rural Resilience [Formal Paper Session]
Thursday | 1:30 pm-3:30 pm | Symphonie 3A**

Organizers: Sarah Low, University of Illinois at Urbana-Champaign; Stephan Weiler, Colorado State University

Presider: Tomás Lopes Cavalheiro Ponce Dentinho, Universidade dos Açores

- *Learning about rural community resilience and capacity from municipal actions during the COVID-19 pandemic.....*Kathleen Bell, University of Maine; Vanessa Levesque, University of Southern Maine; Eileen Johnson, Bowdoin College
- *Exploring a new tourism asset in the context of rural economic development; the case of Fishers Peak State Park.....*Skyler Schuck, Colorado State University
- *Mapping Environmental Hazards Adaptation Capacity and Vulnerability in Timor Leste.....*Tomás Lopes Cavalheiro Ponce Dentinho, Universidade dos Açores; Karina Sass, Universidade dos Açores; Fabiana Issler, EBD Global Optimum

Discussants:

- Tomás Lopes Cavalheiro Ponce Dentinho, Universidade dos Açores
- Kathleen Bell, University of Maine
- Skyler Schuck, Colorado State University

**18. Diversity, Inclusion, Intolerance, & Protest [Formal Paper Session]
Thursday | 1:30 pm-3:30 pm | Symphonie 4A**

President: Laurie Schintler, George Mason University

- *Knocking on Hell's door: dismantling hate with cultural consumption.....*daria denti, Gran Sasso Science Institute
- *The perception of human security and human rights by Mexiquen´s migrants in Canada participating in the SAWP: an exploratory study 2020.....*Lidia Carvajal, Universidad Autonoma del Estado de Mexico; Román Sánchez, Universidad Autónoma del Estado de México; Oswaldo Garcia-Salgado, Universidad Autonoma del Estado de Mexico
- *Geography of contestation: a study on the Yellow Vests movement and the rise of populism in France.....*Torre Andre, University Paris Saclay; Sébastien Bourdin, E.M Normandie
- *Diversity and Inclusion in Regional Science Participation: A Bibliometric Perspective.....*Laurie Schintler, George Mason University; Chen Zhenhua, Ohio State University

Discussants:

- Laurie Schintler, George Mason University
- daria denti, Gran Sasso Science Institute
- Lidia Carvajal, Universidad Autonoma del Estado de Mexico
- Torre Andre, University Paris Saclay

**19. Labor & Firm Productivity [Formal Paper Session]
Thursday | 1:30 pm-3:30 pm | Symphonie 4B**

President: Katarzyna Kopczewska, University of Warsaw

- *Can't Stand the Heat: Climate Stress and Labor Productivity in 16 Latin American and Caribbean Countries.....*Luis Quintero, Johns Hopkins University; Hanchen Jiang, University of North Texas
- *Quantification of non-linear effects in agglomeration economies for transport appraisals.....*Anupriya -, Imperial College London; Daniel Graham, Imperial College London; Prateek Bansal, National University of Singapore
- *The spatial dimension of aging and growth.....*Rosella Nicolini, Universitat Autònoma de Barcelona; José Luis Roig Sabaté, Universitat Autònoma de Barcelona
- *Economies of density vs economies of agglomeration – supplementing matching, learning and sharing with attracting mechanism.....*Katarzyna Kopczewska, University of Warsaw; Mateusz Kopyt, University of Warsaw

Discussants:

- Katarzyna Kopczewska, University of Warsaw
- Luis Quintero, Johns Hopkins University
- Anupriya -, Imperial College London
- Rosella Nicolini, Universitat Autònoma de Barcelona

**20. Access to opportunities and amenities [Special Session]
Thursday | 1:30 pm-3:30 pm | Symphonie 2A**

Organizers: Lisa Lorena Losada Rojas, University of Toronto; Dimitra Pyrialakou, West Virginia University; Eleni Bardaka, North Carolina State University

President: Yue Ke, Argonne National Laboratory

- *A historical collection of impedance functions for active travel accessibility analysis in Canada.....*Mahdis Moghadasi, McMaster University; Antonio Paez, McMaster University
- *Older Drivers in the Rural West.....*Yue Ke, Argonne National Laboratory; Brigitte Waldorf, Purdue University
- *A renewed argument for walkable school accessibility.....*Anastasia Soukhov, McMaster University; Antonio Paez, McMaster University; Christopher Higgins, University of Toronto - Scarborough; Moataz Mohamed, McMaster University
- *Cities in shape: Assessing the impact of urban morphology on accessibility to urban amenities.....*Clara Peiret-Garcia, Newcastle University

Discussants:

- Mahdis Moghadasi, McMaster University
- Yue Ke, Argonne National Laboratory
- Anastasia Soukhov, McMaster University
- Clara Peiret-Garcia, Newcastle University

Panelists:

- Yue Ke, Argonne National Laboratory
- Anastasia Soukhov, McMaster University
- Clara Peiret-Garcia, Newcastle University
- Mahdis Moghadasi, McMaster University

Coffee [Informal meeting]

Thursday | 3:30 pm-4:00 pm | Grand Salon Opera Foyer

21. Work Location & Commuting [Formal Paper Session]

Thursday | 4:00 pm-6:00 pm | Soprano A

Presider: Diego Andres Cardenas Morales, Laval University

- *The work-from-home revolution and the performance of cities.....*Steven Bond-Smith, University of Hawaii - Manoa; Philip McCann, University of Manchester
- *The Problem Has Existed over Endless Years: Racialized Difference in Commuting, 1980–2019.....*devin michelle bunten, Massachusetts Institute of Technology; Ellen Fu, University of Pennsylvania; Lyndsey Rolheiser, University of Connecticut; Christopher Severen, Federal Reserve Bank of Philadelphia
- *What future for office space? An analysis of the relocation of knowledge-intensive business services in the Montréal metropolitan area.....*Diego Andres Cardenas Morales, Laval University; Jean Dube, Universite Laval; Richard Shearmur, McGill University
- *Remote Work and Locational Preferences - The Case of Italy.....*Thea Jansen, Gran Sasso Science Institute (GSSI); Andrea Ascani, Gran Sasso Science Institute (GSSI); Alessandra Faggian, Gran Sasso Science Institute (GSSI); Alessandro Palma, Gran Sasso Science Institute (GSSI)
- *Who continues to work from home and where are they?.....*Ting Zhang, University of Baltimore

Discussants:

- Ting Zhang, University of Baltimore
- Steven Bond-Smith, University of Hawaii - Manoa
- Christopher Severen, Federal Reserve Bank of Philadelphia
- Diego Andres Cardenas Morales, Laval University
- Thea Jansen, Gran Sasso Science Institute (GSSI)

22. Regional Development III [Formal Paper Session]

Thursday | 4:00 pm-6:00 pm | Soprano C

Presider: Hector Nuñez, Banco de México

- *Political Competition and Industrial Location during the Economic Shift in Indonesia.....*Khoirunurrofik Khoirunurrofik, University of Indonesia; Alfred M. Wu, National University of Singapore

- *Effect of greenhouse gas emissions on the regional technical efficiency of the manufacturing sector in Mexico.....*Hector Nuñez, Banco de México
- *Persistence and change of regional entrepreneurial activity in U.S. cities.....*Haifeng Qian, University of Iowa
- *"Hybrid urbanization", labor market extensions and potentials for rural development.....*Hans Westlund, KTH Royal Institute of Technology

Discussants:

- Hans Westlund, KTH Royal Institute of Technology
- Khoirunurrofik Khoirunurrofik, University of Indonesia
- Hector Nuñez, Banco de México
- Haifeng Qian, University of Iowa

**23. Fertility: Trends, Decision Making & Impacts [Formal Paper Session]
Thursday | 4:00 pm-6:00 pm | Symphonie 1**

Presider: Flavia Chein, Federal University of Juiz de Fora

- *Fertility Divergence across Large and Small Areas.....*Xiaoyin Li, Iowa State University; John Winters, Iowa State University
- *Regional Childcare Policy, Urbanization, and Population Dynamics.....*Hiroyuki Hashimoto, University of Hyogo; Tohru Naito, Doshisha University
- *Brumadinho Dam failure, the selection mechanism in utero and effects on human capital.....*Igor Vieira Procópio, Federal University of Juiz de Fora; Flavia Chein, Federal University of Juiz de Fora; Cristine Pinto, Insper

Discussants:

- Flavia Chein, Federal University of Juiz de Fora
- John Winters, Iowa State University
- Michael Betz, Ohio State University
- Tohru Naito, Doshisha University

**24. Freight & Trade [Formal Paper Session]
Thursday | 4:00 pm-6:00 pm | Symphonie 2A**

Presider: Santiago Pinto, Federal Reserve Bank of Richmond

- *The impact of temporal and geographical factors on shippers batch size decisions : a micro-econometrical analysis using data collected over three periods of time.....*el mehdi aboulkacem, Gustave Eiffel University
- *Distance Friction and the Hub-and-Spoke System in the Global Freight Transportation.....*Paul Jung, Inha University; Jean-Claude Thill, University of North Carolina - Charlotte

- *Import competition and domestic transport costs.....*Andrea Caragliu, Politecnico di Milano; Michiel Gerritse, Erasmus University Rotterdam
- *It's the Exporters, Stupid! Local Interests and the Political Economy of Trade.....*Santiago Pinto, Federal Reserve Bank of Richmond; Pablo Pinto, University of Houston; Kishore Gawande, University of Texas - Austin

Discussants:

- Santiago Pinto, Federal Reserve Bank of Richmond
- el mehdi aboukacem, Gustave Eiffel University
- Paul Jung, Inha University
- Andrea Caragliu, Politecnico di Milano

25. Regional/Rural Development III - Manufacturing & Occupation [Formal Paper Session]

Thursday | 4:00 pm-6:00 pm | Symphonie 3A

Organizers: Sarah Low, University of Illinois at Urbana-Champaign; Stephan Weiler, Colorado State University

President: Timothy F. Slaper, Indiana University

- *Identifying Occupational Gaps by Region: Using FDI and Occupation Co-location as Warning Signs.....*Timothy F. Slaper, Indiana University
- *The Impact of Rurality, Age, and Occupation on the Gender Wage Gap in the U.S.....*Ayoung Kim, Mississippi State University; Brigitte Waldorf, Purdue University
- *Regional Workforce Training as a Common Pool Resource: Evidence from Ohio's Manufacturing Sector.....*Edward Hill, Ohio State University; Ken Poland, Ohio State University

Discussants:

- Edward Hill, Ohio State University
- Timothy F. Slaper, Indiana University
- Ayoung Kim, Mississippi State University

26. Transportation: Infrastructure & Connectivity [Formal Paper Session]

Thursday | 4:00 pm-6:00 pm | Symphonie 4A

President: Daniel Hörcher, Imperial College London

- *Highway Congestion in Britain: The effect of transportation improvements.....*Miquel-Angel Garcia-Lopez, Universitat Autònoma de Barcelona; Luz Yadira Gomez-Hernandez, Universitat Autònoma de Barcelona; Rosa Sanchis-Guarner H, University of Barcelona

- *Analysis of Public-Private Partnership and Conventional Projects in Surface Transportation Infrastructure on Long-term Operations and Maintenance (O&M).....*Marina Manganaris, George Mason University; Jonathan Gifford, George Mason University
- *Optimal intercity connectivity: A general equilibrium model with explicit leisure and business travel markets.....*Daniel Hörcher, Imperial College London; Daniel Graham, Imperial College London

Discussants:

- Daniel Hörcher, Imperial College London
- Luz Yadira Gomez-Hernandez, Universitat Autònoma de Barcelona
- Marina Manganaris, George Mason University

27. Tax Policies & Practices [Formal Paper Session]

Thursday | 4:00 pm-6:00 pm | Symphonie 4B

Presider: Elham Erfanian, Ohio University

- *Temporal versus Spatial Specificity in Tax Incentives Program Evaluations: The Case of Wisconsin's Enterprise Zone Program.....*Richard Funderburg, University of Illinois Springfield
- *The spatial effects of selected hydrocarbon-focused environmental policies in Canada.....*HAKAN ANDIC, Statistics Canada
- *Fuel Economy Standards and Public Transport.....*Julius Berger, ifo Institute; Waldemar Marz, ifo Institute
- *Evaluating the impact of power plant closures on educational outcomes in Ohio.....*Elham Erfanian, Ohio University; Fahad Alzahrani, King Faisal University; G. Jason Jolley, Ohio University

Discussants:

- Elham Erfanian, Ohio University
- Richard Funderburg, University of Illinois Springfield
- HAKAN ANDIC, Statistics Canada
- Waldemar Marz, ifo Institute

28. Northeastern RSA Business Meeting (by invitation) [Business Meeting]

Thursday | 4:00 pm-6:00 pm | Ovation

Presiders: John Carruthers, Cornell University; Heather Stephens, West Virginia University;

29. The William Alonso Memorial Prize Lecture [Special Session]

Thursday | 7:00 pm-8:00 pm | Grand Salon Opera

Organizer: John Sporing, NARSC
President: Janet Kohlhase, University of Houston

- *Cultural Heritage and Local Development: A Complex Relationship.....*Silvia Cerisola, Politecnico di Milano

NARSC Thursday Evening Reception [Informal meeting]

Thursday | 8:00 pm-9:00 pm | Grand Salon Opera Foyer

Coffee [Informal meeting]

Friday | 7:30 am-8:30 am | Grand Salon Opera Foyer

Registration & Exhibits [Registration and Exhibits]

Friday | 7:30 am-5:30 pm | Grand-Salon Opera Foyer

30. Retail: Challenges & Changes [Formal Paper Session]

Friday | 8:00 am-10:00 am | Maestro

President: Megan Bailey, University of Maine

- *The Effect of Street Connectivity on Sales Revenue of Retail Area: Focusing on Major Retail Areas in Seoul, South Korea.....*Ahyoung Chang, University of Seoul; Myounggu Kang, University of Seoul
- *Commerce and e-commerce in the face of crisis: Urban retail at a crossroad?.....*Dalit Harel, The Hebrew University of Jerusalem; Sigal Kaplan, The Hebrew University of Jerusalem; Gillad Rosen, The Hebrew University of Jerusalem
- *Shopping Streets, Regional Malls, and Big-box Stores: Shopping Destination Choice by Retail Destination Type in the Montreal Metropolitan Area, 2003–2018.....*Cédric Brunelle, INRS-UCS; Roman Brugières, ENSAI; Alex Rodriguez-Campbell, Laval University; Jean Dube, Université Laval; Nicolas Devaux, Université du Québec à Rimouski
- *Changes in Trade Area Capture and Pull Factors Associated with U.S. Core-Based Metropolitan Statistical Areas, 2002 - 2017.....*Megan Bailey, University of Maine; Andrew Crawley, University of Maine

Discussants:

- Megan Bailey, University of Maine
- Ahyoung Chang, University of Seoul
- Dalit Harel, The Hebrew University of Jerusalem
- Cédric Brunelle, INRS-UCS

31. Climate Change II: Impacts and Adaptation [Formal Paper Session]

Friday | 8:00 am-10:00 am | Soprano B

President: Yilan Xu, University of Illinois - Urbana-Champaign

- *Climate Migration in the Face of Armed Conflict: Reflections on the Role of Adaptation in Environmental Security.....*Hyun Kim, Chungnam National University
- *Regional effects of climate change.....*Luca Bettarelli, University of Milan Bicocca; Davide Furceri, International Monetary Fund; Fabio Mazzola, University of Palermo; Pietro Pizzuto, University of Palermo
- *Does Climate Change News Inform Flood Insurance Take-up?.....*Yi Huang, Nanjing Audit University; Yilan Xu, University of Illinois - Urbana-Champaign
- *Assessing the impact of Red Tide Events on property values in Southwest Florida.....*Bijeta Bijen Saha, University of Florida; Xiaohui Qiao, University of Florida; Christa Court, University of Florida; Olesya Savchenko, University of Florida

Discussants:

- Bijeta Bijen Saha, University of Florida
- Hyun Kim, Chungnam National University
- Fabio Mazzola, University of Palermo
- Yilan Xu, University of Illinois - Urbana-Champaign

32. Perspectives on GeoComputation Approaches for Urban and Regional Systems I [Formal Paper Session]

Friday | 8:00 am-10:00 am | Symphonie 1

Organizers: Liliana Perez, Montreal University; Suzana Dragicevic, Simon Fraser University

Presiders: Liliana Perez, Montreal University; Emma Von Hoene, George Mason University; Suzana Dragicevic, Simon Fraser University;

- *Improving ABM simulations of Mobility using Cost surfaces, Behavioural and Visual models.....*Raja Sengupta, McGill University
- *Network and ABM models of SARS-CoV-2.....*Kinda Al Sayed, Carleton University; Dipto Sarkar, Carleton University; Paul Holloway, University College Cork
- *Integrating Behavioral Theories and Agent-based Models of Disease Spread.....*Emma Von Hoene, George Mason University; Taylor Anderson, George Mason University

Discussants:

- Emma Von Hoene, George Mason University
- Raja Sengupta, McGill University
- Kinda Al Sayed, Carleton University

33. Methods in Regional Science I [Formal Paper Session]

Friday | 8:00 am-10:00 am | Symphonie 2A

President: Ge Lin, Hong Kong University of Science and Technology

- *Linking Spatial Associations and Permutation Tests to Statistical Models.....*Tong Zhang, Purdue University; Ge Lin, Hong Kong University of Science and Technology
- *The economic and demographic impacts of Covid-19 on Portuguese municipalities.....*Karina Sass, Universidade dos Açores; Tomás Lopes Cavalheiro Ponce Dentinho, Universidade dos Açores
- *Tourism and the Trade in Value-Added: Evidence from Spain.....*Philip Watson, University of Idaho; Antonio Gomez, Universidad Pública de Navarra

Discussants:

- Philip Watson, University of Idaho
- Ge Lin, Hong Kong University of Science and Technology
- Karina Sass, Universidade dos Açores

**34. Regional/Rural Development IV - Windmills & Weed [Formal Paper Session]
Friday | 8:00 am-10:00 am | Symphonie 3A**

Organizers: Sarah Low, University of Illinois at Urbana-Champaign; Stephan Weiler, Colorado State University

President: Jason Brown, Federal Reserve Bank of Kansas City

- *Rich region Poor people dichotomy: Measuring regional wealth of energy-rich rural counties of West Virginia.....*Hodjat Ghadimi, West Virginia University
- *Household energy transition in rural China: trends and challenges.....*Xiang Zhang, McGill University; Chris Barrington-Leigh, McGill University; Brian Robinson, McGill University
- *A 'Significant Crisis and Financial Windfall': The Proliferation of Medical Marijuana in Rural Oklahoma.....*Brian Whitacre, Oklahoma State University; Andrew Van Leuven, Oklahoma State University
- *The Effects of Recreational Marijuana Legalization on State Economies.....*Jason Brown, Federal Reserve Bank of Kansas City; Elijah Cohen, Federal Reserve Bank of Kansas City

Discussants:

- Jason Brown, Federal Reserve Bank of Kansas City
- Hodjat Ghadimi, West Virginia University
- Xiang Zhang, McGill University
- Andrew Van Leuven, Oklahoma State University

**35. Left Behind Places & People I [Formal Paper Session]
Friday | 8:00 am-10:00 am | Symphonie 4A**

President: Steven Bond-Smith, University of Hawaii - Manoa

- *The more labelled, the more resilient? The role of place-branding intangibles in Italian peripheral areas.....*Fabiano Compagnucci, Gran Sasso Science Institute; Alessandra Faggian, Gran Sasso Science Institute (GSSI); Giulia Urso, Gran Sasso Science Institute
- *Seeing Social Disconnection: Using Twitter Data to Understand Left Behind Places.....*Rachael Sanderson, Newcastle University; Rachel Franklin, Newcastle University; Danny MacKinnon, Newcastle University; Joe Matthews, Newcastle University
- *Regional diagnostics and local policy prescriptions.....*Steven Bond-Smith, University of Hawaii - Manoa; Philip McCann, University of Manchester

Discussants:

- Steven Bond-Smith, University of Hawaii - Manoa
- Giulia Urso, Gran Sasso Science Institute
- Rachael Sanderson, Newcastle University

**36. Amenities & Happiness [Formal Paper Session]
Friday | 8:00 am-10:00 am | Symphonie 4B**

President: Sowon Kim, Ohio State University

- *The Value of Historic Districts in Georgia.....*Carlianne Patrick, Georgia State University
- *Amenities, urban consumption and tourism.....*Miquel-Angel Garcia-Lopez, Universitat Autònoma de Barcelona; Giacomo Rosso, University of Turin & Collegio Carlo Alberto
- *What makes a happy island?.....*Dimitris Ballas, Groningen University
- *The Impact of Remote Work on Natural Amenity Values in Regional Housing Markets.....*Khyati Malik, Ohio State University; Sowon Kim, Ohio State University; Brian Cultice, Ohio State University

Discussants:

- Sowon Kim, Ohio State University
- Carlianne Patrick, Georgia State University
- Miquel-Angel Garcia-Lopez, Universitat Autònoma de Barcelona
- Dimitris Ballas, Groningen University

**37. Location and Spatial Analysis I [Special Session]
Friday | 8:00 am-10:00 am | Soprano A**

Organizers: Alan Murray, University of California - Santa Barbara; Ran Wei, University

of California - Riverside

Presider: Ran Wei, University of California - Riverside

- *Locational Analysis and Open-Source Spatial Optimization.....*Jiwon Baik, University of California - Santa Barbara; Alan Murray, University of California - Santa Barbara
- *A dynamic equilibrium model of commuting, residential and work location choices.....*Fedor Iskhakov, Australian National University; Christian Langholz Carstensen, University of Copenhagen; Bertel Schjerning, University of Copenhagen; John Rust, Georgetown University; Maria Juul Hansen, University of Copenhagen
- *Spatial Income Inequality in the United States.....*Francisco Castellanos-Sosa, University of Texas - Austin
- *Franchise distribution location modeling with a distance restriction between franchisees for the convenience store chain.....*Gunhak Lee, Seoul National University

Discussants:

- Huanfa Chen, University College London
- Vanessa Echeverri Figueroa, University of California - Santa Barbara
- Carlos Baez, University of California - Santa Barbara
- B. Amelia Pludow, UC Santa Barbara

**38. Spatial Coronometrics I: Amenities, Recreation & Tourism [Special Session]
Friday | 8:00 am-10:00 am | Soprano C**

Organizers: Peter Nijkamp, Open University, Heerlen, The Netherlands; Karima Kourtit, Open University, The Netherlands

Presider: Peter Batey, University of Liverpool

- *Discussion on the tourism vulnerability under the effects of Covid-19 pandemic : Taking Taiwan and its offshore islands as an example.....*CHI-TUNG HUNG, MING CHUAN UNIVERSITY; WEN-YEN LIN, MING CHUAN UNIVERSITY
- *A Day at the Park: How COVID-19 Impacted Park Amenity Valuation.....*Hongxi Zhao, Ohio State University; H. Allen Klaiber, Ohio State University
- *Urban and Rural Saturday Night Fever: Inner- and Outercity Leisure Patterns in Corona Times.....*Jaewon Lim, University of Nevada - Las Vegas
- *Resilience, Craft Breweries, and COVID-19.....*Neil Reid, University of Toledo

**39. RSAI Council Meeting (by invitation only) [Business Meeting]
Friday | 8:00 am-10:00 am | Ovation**

Organizer: Andrea Caragliu, Politecnico di Milano

Presider: Eduardo Haddad, University of Sao Paulo

Coffee [Informal meeting]

Friday | 10:00 am-10:30 am | Grand Salon Opera Foyer

40. Using Regional Science to Understand the Past [Formal Paper Session]

Friday | 10:30 am-12:30 pm | Maestro

Presider: Rafael González-Val, Universidad de Zaragoza

- *Legendary Bridges: Rental Housing Markets in Tokugawa Japan.....*Yu Mandai, Mitsui Bunko; Masaki Nakabayashi, The University of Tokyo
- *Regional Science Meets the Past: Space and Money Circulation in Ancient Rome.....*Eduardo Haddad, University of Sao Paulo; Inacio Araujo, University of Sao Paulo
- *War and city size: The asymmetric and short-lived effects of the Spanish Civil War.....*Rafael González-Val, Universidad de Zaragoza; Javier Silvestre, Universidad de Zaragoza
- *Local public finances in Colombia: a long-term vision, 1923 - 2020.....*Jaime Bonet, Banco de la República; Javier Perez, Banco de la Republica (The Central Bank of Colombia); Diana Ricciulli, University of British Columbia

Discussants:

- Jaime Bonet, Banco de la República
- Masaki Nakabayashi, The University of Tokyo
- Eduardo Haddad, University of Sao Paulo
- Rafael González-Val, Universidad de Zaragoza

41. Roads and Travel [Formal Paper Session]

Friday | 10:30 am-12:30 pm | Soprano B

Presider: Elizabeth Dobis, USDA Economic Research Service

- *A Tale of Spatial Cities: How do Roads Affect the Size of Urbanized Areas?.....*Yixuan Wang, Ohio State University
- *A methodology for optimal road space allocation between modes.....*David Murray, Ecole Polytechnique; Catherine Morency, Ecole Polytechnique
- *Automated analysis of on-street parking.....*Jean-Simon Bourdeau, Polytechnique Montréal; Catherine Morency, Ecole Polytechnique
- *Difficult Terrain and Access to Urban Areas.....*Elizabeth Dobis, USDA Economic Research Service; John Cromartie, USDA Economic Research Service; Ryan Williams, USDA Economic Research Service; Kyle Reed, USDA Economic Research Service

Discussants:

- Elizabeth Dobis, USDA Economic Research Service
- Yixuan Wang, Ohio State University

- David Murray, Ecole Polytechnique
- Jean-Simon Bourdeau, Polytechnique Montréal

**42. Methods in Regional Science II [Formal Paper Session]
Friday | 10:30 am-12:30 pm | Symphonie 2A**

President: JUNYA FUKUMOTO, Tohoku University

- *CGE Study of Hawaiian Minimum Wage Hike: Focus on Data Development.....*Patrick Buckley, Western Washington University
- *Input-Output Model Aggregation Bias in the Context of Detailed Data Imputation.....*Randall Jackson, West Virginia University; Caroline Welter, West Virginia University; Gary Cornwall, BEA
- *Equilibrium evacuation model with the facility capacity constraints.....*JUNYA FUKUMOTO, Tohoku University

Discussants:

- JUNYA FUKUMOTO, Tohoku University
- Patrick Buckley, Western Washington University
- Caroline Welter, West Virginia University

**43. Regional/Rural Development V - Childcare & Household Decision Making
[Formal Paper Session]
Friday | 10:30 am-12:30 pm | Symphonie 3A**

Organizers: Sarah Low, University of Illinois at Urbana-Champaign; Stephan Weiler, Colorado State University

President: Andrew Van Leuven, Oklahoma State University

- *A Competition Conundrum: Are Charter Schools More Exposed to Economic Shocks?.....*Michael Trouw, Colorado State University
- *Access to Childcare and Labor Productivity: Is There a Rural Affect?.....*Steven Deller, University of Wisconsin - Madison; Tessa Conroy, University of Wisconsin - Madison; Jie WU, University of Wisconsin - Madison
- *The Economic Dynamism of Child Care Establishments in the United States.....*Andrew Van Leuven, Oklahoma State University; Tessa Conroy, University of Wisconsin - Madison
- *Household Welfare Effects of ROSCAs in Rural and Urban India.....*Pushkar Maitra, Monash University; Ray Miller, Colorado State University; Ashish Sedai, University of Texas - Arlington

Discussants:

- Andrew Van Leuven, Oklahoma State University
- Steven Deller, University of Wisconsin - Madison

- Ray Miller, Colorado State University
- Michael Trouw, Colorado State University

**44. Left Behind Places & People II [Formal Paper Session]
Friday | 10:30 am-12:30 pm | Symphonie 4A**

Presider: Xin Li, Wuhan University

- *How can innovation network structure empower regional resilience?.....*Yijia Wen, florida state university; Kerry Fang, Florida state university
- *The impact of fair trade in Social and Solidarity Economy Organizations in Ecuador.....*Carolina Guevara Rosero, Escuela Politécnica Nacional; Marcela Guachamín, Escuela Politécnica Nacional; Katherine Monge, Escuela Politécnica Nacional; Henry Yanez, Escuela Politécnica Nacional; Javier Flor, Instituto de Economía Popular y Solidaria
- *NRRP-induced Occupation/Skill Shifts for Romania's NUTS-2 Regions.....*Michael Lahr, Rutgers University; Alexandru Voicu, CUNY - Staten Island
- *Regional Economic Disparities in China : A Spatial Perspective.....*Yongming Huang, Wuhan University; Xin Li, Wuhan University; Yuhang Xiang, Wuhan University

Discussants:

- Xin Li, Wuhan University
- Yijia Wen, florida state university
- Carolina Guevara Rosero, Escuela Politécnica Nacional
- Michael Lahr, Rutgers University

**45. Changing Travel Patterns [Formal Paper Session]
Friday | 10:30 am-12:30 pm | Symphonie 4B**

Presider: Kara Kockelman, University of Texas - Austin

- *Spatiotemporal analysis of public microtransit trip characteristics in North Carolina.....*Subid Ghimire, North Carolina State University; Eleni Bardaka, North Carolina State University
- *Analysis of Household-Firm Spatial Interactions in the Post-Great Recession Labor Market: Determinants of Commuting Patterns Across the Upper Midwest.....*Matthew Kures, University of Wisconsin - Madison
- *SELF-DRIVING VEHICLES' IMPACTS ON AMERICANS' LONG-DISTANCE DOMESTIC TRAVEL CHOICES.....*Fatemeh Fakhrmoosavi, University of Texas - Austin; Priyanka Paithankar, University of Texas - Austin; Kara Kockelman, University of Texas - Austin; Yantao Huang, University of Texas - Austin; Jason Hawkins, University of Nebraska - Lincoln

- *INTERNATIONAL TRAVEL TO AND FROM THE U.S.: DESTINATION AND MODE DECISIONS, DEPARTURE DATES, AND AIRLINE FARES.....*Priyanka Paithankar, University of Texas - Austin; Fatemeh Fakhrmoosavi, University of Texas - Austin; Kara Kockelman, University of Texas - Austin; Kenneth Perrine, University of Texas - Austin

Discussants:

- Kara Kockelman, University of Texas - Austin
- Kara Kockelman, University of Texas - Austin
- Subid Ghimire, North Carolina State University
- Matthew Kures, University of Wisconsin - Madison

46. Location and Spatial Analysis II [Special Session]

Friday | 10:30 am-12:30 pm | Soprano A

Organizers: Alan Murray, University of California - Santa Barbara; Ran Wei, University of California - Riverside

President: Alan Murray, University of California - Santa Barbara

- *The alternatives to formulating classic location problems, part 2: the p-median problem.....*Rick Church, University of California - Santa Barbara
- *ECARBONIZING REGIONAL MULTI-MODAL TRANSPORTATION SYSTEM WITH SHARED ELECTRIC CHARGING HUB.....*Zuzhao Ye, University of California - Riverside; Ran Wei, University of California - Riverside
- *Assessing Computational Performance in Land Allocation Problems with Contiguity Requirements.....*Vanessa Echeverri Figueroa, University of California - Santa Barbara; Alan Murray, University of California - Santa Barbara; Rick Church, University of California - Santa Barbara
- *An efficient solution approach for the p-dispersion problem using spatially informed properties.....*Changwha Oh, University of Tennessee; Hyun Kim, University of Tennessee; Yongwan Chun, University of Texas - Dallas

Discussants:

- Ran Wei, University of California - Riverside
- Fedor Iskhakov, Australian National University
- Ran Wei, University of California - Riverside
- Jiwon Baik, University of California - Santa Barbara

47. Spatial Coronometrics II: Labor Market Dynamics [Special Session]

Friday | 10:30 am-12:30 pm | Soprano C

Organizers: Peter Nijkamp, Open University, Heerlen, The Netherlands; Karima Kourtit, Open University, The Netherlands

President: Neil Reid, University of Toledo

- *Labour Market Dynamics' Resilience to the COVID Crisis: A Quebec Regional Analysis.....*Nicolas Devaux, Université du Québec à Rimouski; Jean Dube, Université Laval; Cédric Brunelle, INRS-UCS
- *A dose-response assessment of the labour demand during the pandemic in Italy.....*Fernanda Gutierrez Amaros, Gran Sasso Science Institute; Alessandra Faggian, Gran Sasso Science Institute (GSSI); Andrea Ascani, Gran Sasso Science Institute (GSSI); Alexandra Tsvetkova, OECD; Wessel Vermeulen, OECD
- *Discrimination in Restaurant Patronage at the Onset of the Covid Pandemic.....*Guanting Yi, Ohio State University
- *Regional Economic Impact of the COVID-19 Recession.....*Louis Amato, UNC Charlotte; Richard Cebula, George Mason University; John Connaughton, UNC Charlotte

**48. Perspectives on Geocomputation Approaches for Urban and Regional Systems II [Special Session]
Friday | 10:30 am-12:30 pm | Symphonie 1**

Presider: Yonghua Huang, East China Normal University

- *GeoSimulation approach for modeling global urban land use change.....*Bright Addae, Simon Fraser University; Suzana Dragicevic, Simon Fraser University
- *Assessing the Impacts of Urban Wetlands Land Cover Changes on Water Provision Ecosystem Services – A geosimulation approach.....*Yenny Cuellar Roncancio, Montreal University; Liliana Perez, Montreal University
- *Evacuation Simulation on Dormitories of Chinese Universities with Considering Retardation Time.....*Yonghua Huang, East China Normal University; Hao Chu, East China Normal University; Raja Sengupta, McGill University

Discussants:

- Yonghua Huang, East China Normal University
- Bright Addae, Simon Fraser University
- Yenny Cuellar Roncancio, Montreal University

**SRSA Business Meeting (invitation only) [Business Meeting]
Friday | 12:30 pm-2:00 pm | Ovation**

**49. Institutions & Public Policy [Formal Paper Session]
Friday | 1:30 pm-3:30 pm | Maestro**

Presider: Kerry Fang, Florida state university

- *Bureaucratic Influence on Policy: Evidence from Unemployment Insurance.....*Steven Craig, University of Houston; Edward Hoang, University of Colorado - Colorado Springs; Janet Kohlhasse, University of Houston

- *The engine of persistency: Quantifying regional variation in the quasi-periodicity of institutional change in Europe.....*Nadiia Matsiuk, University of Padova
- *Policy (De)centralization and the Spatial Interaction Model: Theory and Illustrative Examples.....*Guido Candela, University of Bologna; Maurizio Mussoni, University of Bologna; Roberto Patuelli, University of Bologna
- *Communication Network and Power Dynamics in Economic Development Projects.....*Kerry Fang, Florida state university; Samuel Staley, Florida State University; Gordon Erlebacher, Florida State University; Yijia Wen, florida state university; Joey Zhang, Florida State University

Discussants:

- Kerry Fang, Florida state university
- Janet Kohlhase, University of Houston
- Nadiia Matsiuk, University of Padova
- Roberto Patuelli, University of Bologna

50. Spatial Corinometrics III: Flows of People and Money and Mobility [Formal Paper Session]

Friday | 1:30 pm-3:30 pm | Soprano C

Organizers: Peter Nijkamp, Open University, Heerlen, The Netherlands; Karima Kourtit, Open University, The Netherlands

President: Jaewon Lim, University of Nevada - Las Vegas

- *Modeling the Long-term Impact of COVID-19 on Transit use in Latin American middle-sized cities: Lessons from one pilot study in Cusco, Peru.....*Viviana Zambrano, University of Connecticut; Avishan Montazer, University of Connecticut; Davis Chacón-Hurtado, University of Connecticut; Marisa Auguste, University of Connecticut; Renzo de la Riva Agüero, University of Connecticut
- *How do post-COVID migration trends stack up? A comparison of Census-based results with new address change data.....*Kevin Kane, Southern California Association of Governments
- *An Estimation of Origin-Destination Remittance Flow Matrix from US to Mexico.....*MIGUEL FLORES, Tecnológico de Monterrey
- *Regional Science, Peace Science, and COVID-19.....*Manas Chatterji, Binghamton University

51. Regional/Rural Development VI - Housing [Formal Paper Session]

Friday | 1:30 pm-3:30 pm | Symphonie 3A

Organizers: Sarah Low, University of Illinois at Urbana-Champaign; Stephan Weiler, Colorado State University

President: Ayoung Kim, Mississippi State University

- *Nowhere to Sleep at the Bottom: The Plight of Housing Affordability for the Lowest Earners in the U.S.....*Thomas J. PlaHovinsak II, Longwood University; Andrew G Mueller, University of Denver; Lauren Terschan, Federal Reserve Bank of Atlanta
- *Preserving Affordable Rural Rental Properties by Understanding Market Competitiveness.....*Seva Rodnyansky, Occidental College; Brian An, Georgia Institute of Technology; Anthony Orlando, California Polytechnic State University - Pomona; Andrew Jakabovics, Enterprise Community Partners
- *Explaining Heirs' Property in the U.S. with Spatial Models: A Spatial Perspective.....*Ayoung Kim, Mississippi State University; John Green, Southern Rural Development Center, Mississippi State University; Cassandra Johnson Gaither, USDA Forest Service, Southern Research Station; G. Rebecca Dobbs, USDA Forest Service, Southern Research Statio
- *Spatial Coordination of Home Buyouts in Disaster-Prone Areas: Experimental Evidence on Policy Mechanisms and their Tradeoffs.....*Laura Paul, USDA Economic Research Service; Christina McGranaghan, University of Delaware; AR Siders, University of Delaware; Polina Dineva, University of Delaware; Leah Palm-Forster, University of Delaware; Kent Messer, University of Delaware

Discussants:

- Ayoung Kim, Mississippi State University
- Laura Paul, USDA Economic Research Service
- Andrew G Mueller, University of Denver
- Seva Rodnyansky, Occidental College

52. Cities, Land Use & Zoning [Formal Paper Session] Friday | 1:30 pm-3:30 pm | Symphonie 4A

Presider: Diana Mok, University of Western Ontario

- *How does upzoning impact land use and transport: a case study of Seattle.....*Naifu Fan, Tongji University; Kara Kockelman, University of Texas - Austin; Peter Caballero, puget sound regional council; Jason Hawkins, University of Nebraska - Lincoln; Xiaohong Chen, Tongji University
- *Growing A Mega City.....*Xuequan Elsie Peng, University of Pennsylvania
- *Are all Transport Investments Equal? The Impact of Infrastructure on Urban Sprawl in Vienna, Austria.....*Hongxi Zhao, Ohio State University; H. Allen Klaiber, Ohio State University; Ulrich Morawetz, University of Natural Resources and Life Sciences; Douglas Wrenn, Pennsylvania State University
- *A global perspective on land use regulations and informal settlements.....*Eric Heikkila, University of Southern California; Cynthia Goytia, UTDT
- *Are riskier cities more compact? An empirical study of the 11 largest Census Metropolitan Areas in Canada, 2016.....*Diana Mok, University of Western Ontario; Jinfei Wang, University of Western Ontario; Xiaoxuan Sun, University of Western Ontario

Discussants:

- Diana Mok, University of Western Ontario
- Kara Kockelman, University of Texas - Austin
- Xuequan Elsie Peng, University of Pennsylvania
- Hongxi Zhao, Ohio State University
- Eric Heikkila, University of Southern California

53. Poverty & Welfare [Formal Paper Session]

Friday | 1:30 pm-3:30 pm | Symphonie 4B

Presider: Yating Ru, Cornell University

- *Can decentralisation help address poverty and social exclusion in Europe?.....*Vassilis Tselios, Panteion University of Social and Political Sciences; Andrés Rodríguez-Pose, London School of Economics
- *Spatial clusters of single-mother households and regional characteristics in Japan.....*Yuki Shibatsuji, Keio University
- *How Urbanization Affects Child Nutritional Outcomes in African Countries – Empirical Evidence from Egypt, Ghana, Nigeria, and Senegal.....*Yating Ru, Cornell University

Discussants:

- Yating Ru, Cornell University
- Vassilis Tselios, Panteion University of Social and Political Sciences
- Yuki Shibatsuji, Keio University

54. Location and Spatial Analysis III [Special Session]

Friday | 1:30 pm-3:30 pm | Soprano A

Organizers: Alan Murray, University of California - Santa Barbara; Ran Wei, University of California - Riverside

Presider: Rick Church, University of California - Santa Barbara

- *Evaluation of a forest treatment planning heuristic for multiple objective problems.....*B. Amelia Pludow, UC Santa Barbara; Alan Murray, University of California - Santa Barbara; Rick Church, University of California - Santa Barbara; Vanessa Echeverri Figueroa, University of California - Santa Barbara
- *Immigration and Income Inequality in the United States.....*Francisco Castellanos-Sosa, University of Texas - Austin
- *Distance-based Measurements and Tests of Global Spatiotemporal Association.....*Carlos Baez, University of California - Santa Barbara
- *Mapping production activity in Yukon: An investigation of geo-spatial Gross domestic product.....*Ryan Macdonald, Statistics Canada; Robby Bemrose, Statistics Canada; Mark Brown, Statistics Canada

Discussants:

- Gunhak Lee, Seoul National University
- Rick Church, University of California - Santa Barbara
- Francisco Castellanos-Sosa, University of Texas - Austin
- Rick Church, University of California - Santa Barbara

55. Perspectives on Geocomputation Approaches for Urban and Regional Systems III [Special Session]

Friday | 1:30 pm-3:30 pm | Symphonie 1

Presider: Changho Lee, University of Texas - Dallas

- *Fire Disaster Evacuation Simulation in Chinese Urban Subway Station.....*Hao Chu, East China Normal University
- *Impacts of spatial imputation on $p > 3$ median location-allocation problem solutions.....*Dongeun Kim, University of Texas - Dallas; Yongwan Chun, University of Texas - Dallas; Daniel Griffith, University of Texas - Dallas
- *Spatial Autocorrelation informed approaches to solving location-allocation problems: spatial autocorrelation-informed sampling for initial heuristic solutions.....*Changho Lee, University of Texas - Dallas; Daniel Griffith, University of Texas - Dallas; Hyun Kim, University of Tennessee; Yongwan Chun, University of Texas - Dallas

Discussants:

- Changho Lee, University of Texas - Dallas
- Hao Chu, East China Normal University
- Dongeun Kim, University of Texas - Dallas

56. Graduate Student-Led Paper Competition - Finalists [Special Session]

Friday | 1:30 pm-3:30 pm | Symphonie 3B

Presider: Christa Court, University of Florida

- *Climate Variability and County-Level Net Migration Rate in the United States, 1970 – 2010.....*Shuai Zhou, Pennsylvania State University; Guangqing Chi, Pennsylvania State University; Brian Thiede, Pennsylvania State University
- *Impact of Demolitions on Neighboring Property Values in Detroit.....*Camila Alwayay Torrejon, Michigan State University; Dusan Paredes, Universidad Catolica del Norte; Mark Skidmore, Michigan State University
- *The Impact of Wildfires on Regional Demographic Changes: Evidence from Oregon.....*Sowon Kim, Ohio State University; Yixuan Wang, Ohio State University
- *Investigating the Factors of Household Purchase Intention of Autonomous Vehicles in California, United States.....*Md. Mokhlesur Rahman, University of

North Carolina - Charlotte; Jean-Claude Thill, University of North Carolina - Charlotte

57. Diversity Initiatives in Regional Science [Panel]
Friday | 1:30 pm-3:30 pm | Soprano B

Organizer: Yuri Mansury, Illinois Institute of Technology

Presider: Yuri Mansury, Illinois Institute of Technology

Panelists:

- Andrea Caragliu, Politecnico di Milano
- Tessa Conroy, University of Wisconsin - Madison
- Kieran Donaghy, Cornell University
- Bruce Newbold, McMaster University
- Amanda Weinstein, University of Akron
- John Spring, NARSC

58. Neighborhoods & Neighborhood Change
Friday | 1:30 pm-3:30 pm | Symphonie 2A

Presider: Shriya Rangarajan, Cornell University

- *Spatiotemporal Patterns of Neighborhood Change: A Text Classification and Regionalization Approach.....*Isabelle Nilsson, University of North Carolina - Charlotte; Elizabeth Delmelle, University of North Carolina - Charlotte
- *National Homebuilders' Internal Network and Local Housing Outcomes.....*seohee kim, Duke University
- *Urbanization Patterns and Social Capital Networks among regions for Natural Disaster Resilience.....*KIYOMI KAWAMOTO, Toyo University; Eric Yamashita, University of Hawaii - Manoa
- *Spatial Patterns of Demolition Activity and Regional Deconstruction Potential: Using spatial analysis to inform policy-making in Ithaca, New York.....*Shriya Rangarajan, Cornell University; Jennifer Minner, Cornell University; Yu Wang, Cornell University; Felix Heisel, Cornell University

Discussants:

- Shriya Rangarajan, Cornell University
- Isabelle Nilsson, University of North Carolina - Charlotte
- seohee kim, Duke University
- KIYOMI KAWAMOTO, Toyo University

Coffee [Informal meeting]

Friday | 3:30 pm-4:00 pm | Grand Salon Opera Foyer

59. Spatial Coronametrics IV: Institutions, Neighborhoods & Resilience [Special Session]

Friday | 4:00 pm-5:30 pm | Soprano C

Organizers: Peter Nijkamp, Open University, Heerlen, The Netherlands; Karima Kourtit, Open University, The Netherlands

President: Peter Nijkamp, Open University, Heerlen, The Netherlands

- *Institutional quality and COVID-19 vaccination: national factors and subnational authority.....*Chiara F. Del Bo, Università degli Studi di Milano
- *Neighborhood Effects on Covid-19 Vaccinations.....*Charlotta Mellander, Jonkoping International Business School
- *Rural and urban fertility impacts of COVID-19 stay at home orders.....*Michael Betz, Ohio State University

60. Education: Outcomes & Impacts [Formal Paper Session]

Friday | 4:00 pm-6:00 pm | Maestro

President: Jeff Chan, Wilfrid Laurier University

- *Local effects of education and age cohorts on unemployment in Germany.....*Carsten Ochsén, University of Applied Labour Studies
- *Does access to public parks influence educational outcomes for elementary school students?.....*Lea Fortmann, University of Puget Sound; Isha Rajbhandari, University of Puget Sound
- *Is Education Finance Driven by Tastes for Equality, or Tastes for Education?.....*Chris Biolsi, Western Kentucky; Steven Craig, University of Houston; Amrita Dhar, University of Mary Washington
- *The Long-Run Effects of Childhood Exposure to Market Access Shocks: Evidence from the U.S. Railroad Network Expansion.....*Jeff Chan, Wilfrid Laurier University

Discussants:

- Jeff Chan, Wilfrid Laurier University
- Carsten Ochsén, University of Applied Labour Studies
- Isha Rajbhandari, University of Puget Sound
- Steven Craig, University of Houston

61. Housing III: Rents, Taxes, & Property Values [Formal Paper Session]

Friday | 4:00 pm-6:00 pm | Symphonie 1

President: Timothy Hodge, Oakland University

- *Tenant Rights, Eviction, and Rent Affordability.....*Edward Coulson, University of California - Irvine; Thao Le, Georgia State University; Lily Shen, Clemson University
- *Tax Revolt and Neighborhood Churning: A California Style.....*Soomi Lee, University of La Verne
- *A Double Negative: Capitalizing on Assessment Regressivity.....*Timothy Hodge, Oakland University; Timothy Komarek, Old Dominion University; Andrew McAllister, Oakland University
- *Housing prices and strikes: Evidence from Cali, Colombia.....*Jhon James Mora, Universidad Icesi; Juan Sayago, Universidad Icesi

Discussants:

- Juan Sayago, Universidad Icesi
- Edward Coulson, University of California - Irvine
- Soomi Lee, University of La Verne
- Timothy Hodge, Oakland University

62. Migration: Patterns and Impacts [Formal Paper Session]

Friday | 4:00 pm-6:00 pm | Symphonie 2A

Presider: Yu Wang, Cornell University

- *The spatial spillovers of migration on education: Evidence from the Philippines.....*Christopher J. Cabuay, De La Salle University; Budy P. Resosudarmo, Australian National University
- *Social and geographic mobility in the Northern California megaregion: an analysis of sequential moves.....*Andre Comandon, University of Southern California; Seva Rodnyansky, Occidental College; Marlon Boarnet, University of Southern California
- *Welcome back! The impact of 'return initiatives' on interregional return migration to rural regions.....*Anja Rossen, Institute for Employment Research (IAB); Moritz Meister, Institute for Employment Research (IAB); Cornelius Peters, Institute of Rural Economics
- *TRACKING THE PEACOCKS: A SPATIAL ANALYSIS OF INTERPROVINCIAL MIGRATION IN CHINA, 1990-2020.....*Yu Wang, Cornell University; Sainan Lin, Wuhan University; John Carruthers, Cornell University

Discussants:

- Yu Wang, Cornell University
- Budy P. Resosudarmo, Australian National University
- Andre Comandon, University of Southern California
- Anja Rossen, Institute for Employment Research (IAB)

**63. Regional/Rural Development VII - Entrepreneurship & Rural Economic Development [Formal Paper Session]
Friday | 4:00 pm-6:00 pm | Symphonie 3A**

Organizers: Sarah Low, University of Illinois at Urbana-Champaign; Stephan Weiler, Colorado State University

President: Nicholas Kacher, Scripps College

- *Rural Agglomeration: Examining Trends and Determinants of the Population Distribution Between Towns and the Open-Countryside in Rural America.....*Austin Sanders, USDA Economic Research Service; Sarah Low, University of Illinois at Urbana-Champaign
- *Impacts of Broadband Availability and Speed on Employment at the Business Establishment Level: An Investigation Using Validated National Establishment Time Series (NETS) and Data Axle Data.....*Christina Biedny, Oklahoma State University; John Pender, USDA Economic Research Service; Brian Whitacre, Oklahoma State University
- *Housing Debt and New Business Formation.....*Nicholas Kacher, Scripps College
- *New Technologies, Innovation and Rural-Urban Linkages.....*Philip McCann, University of Manchester; Raquel Ortega-Argilés, University of Manchester; Enrique Garcilazo, OECD; Michelle Marshallian, OECD

Discussants:

- Nicholas Kacher, Scripps College
- Austin Sanders, USDA Economic Research Service
- Craig Carpenter, Michigan State University
- Philip McCann, University of Manchester

**64. Economic Impact of Openings & Closures [Formal Paper Session]
Friday | 4:00 pm-6:00 pm | Symphonie 4A**

President: Mark Partridge, Ohio State University

- *Emergency Department Closures and Mortality.....*Pinka Chatterji, University at Albany, SUNY; Chunyu Ho, University at Albany, SUNY; Xue Wu, University at Albany, SUNY
- *Military Installations as Economic Anchors: An Enhanced Examination of Regional Impacts.....*Joshua Drucker, University of Illinois at Chicago; Marc Doussard, University of Illinois Urbana Champaign
- *Causal Inference of the Impact of Abolition of Railways on Local Population Along Lines.....*JUNYA FUKUMOTO, Tohoku University; Shuhei Kasuo, Sojitz Corporation
- *Identifying Agglomeration Spillovers: New Evidence from Large Plant Openings.....*Carlianne Patrick, Georgia State University; Mark Partridge, Ohio State University

Discussants:

- Mark Partridge, Ohio State University
- Xue Wu, University at Albany, SUNY
- Joshua Drucker, University of Illinois at Chicago
- JUNYA FUKUMOTO, Tohoku University

65. Regional Economic Effects of Disasters [Special Session]

Friday | 4:00 pm-6:00 pm | Soprano A

Organizers: Yasuhide Okuyama, University of Kitakyushu; Adam Rose, University of Southern California

President: Adam Rose, University of Southern California

- *Impact of Floods & Wildfires on Household Finance.....*Amy Ando, University of Illinois - Urbana-Champaign; Paavani Sachdeva, University of Illinois - Urbana-Champaign; Yilan Xu, University of Illinois - Urbana-Champaign
- *Behavioral Economic Consequences of Disasters.....*Adam Rose, University of Southern California
- *Fiscal policy response of local governments to floods in Italy.....*Chiara Lodi, University of Urbino; Giovanni Marin, University of Urbino; Marco Modica, Gran Sasso Science Institute
- *Application of Urban Landuse Survey on Hazard Vulnerability Assessment – A Case Study of Xibei Area, New Taipei City, Taiwan.....*WEN-YEN LIN, MING CHUAN UNIVERSITY; CHI-TUNG HUNG, MING CHUAN UNIVERSITY

Discussants:

- Adam Rose, University of Southern California
- Marco Modica, Gran Sasso Science Institute
- Huan LIU, Kyoto University
- Yasuhide Okuyama, University of Kitakyushu
- Paavani Sachdeva, University of Illinois - Urbana-Champaign

66. "Assessing a Waterfront Climate Resilience Plan: Findings from the NERSA/NARSC summer School" [Special Session]

Friday | 4:00 pm-6:00 pm | Soprano B

Organizer: Kieran Donaghy, Cornell University

President: Kieran Donaghy, Cornell University

- *Economic Impact Analysis of the NYC Financial District (FiDi) Plan Implementation in Lower Manhattan: An Input-Output Approach.....*Caroline Welter, West Virginia University; Daniel Centuriao, West Virginia University
- *Who Cares? An Analytical Hierarchy Process to Understand Stakeholder Priorities in Climate Resilience Plans.....*Shriya Rangarajan, Cornell University;

Marina Manganaris, George Mason University; Yaxuan Wen, Brandeis University; Daniel Centuriao, West Virginia University

- *How do We Value Access to Water vs. Flooding Risk? A Difference-in-Difference Spatial Hedonic Model Approach.....*Yaxuan Wen, Brandeis University; Shriya Rangarajan, Cornell University; Marina Manganaris, George Mason University; Daniel Centuriao, West Virginia University
- *A Performance-Based Engineering Prospective to assess the regional risks of flooding in Lower Manhattan.....*Prateek Arora, New York University; Sajani Kandel, University of Massachusetts - Boston; Riccardo Negri, New York University; Evan Heberlein, Cornell University

Discussants:

- Daniel Centuriao, West Virginia University
- Yuri Mansury, Illinois Institute of Technology
- Marina Manganaris, George Mason University
- Caroline Welter, West Virginia University

67. NARSC Diversity & Inclusion Committee Annual Lecture [Special Session] Friday | 4:00 pm-6:00 pm | Symphonie 3B

- *The Impacts of COVID-19 on Food Access.....*Daoqin Tong, Arizona State University

68. Machine Learning in Regional Science: Perspectives, Methods, and Applications [Special Session] Friday | 4:00 pm-6:00 pm | Symphonie 4B

Organizers: Kevin Credit, Maynooth University; Matthew Lehnert, Al Akhawayn University

Presider: Antonio Paez, McMaster University

- *A structured comparison of causal machine learning methods to assess heterogeneous treatment effects in spatial data.....*Kevin Credit, Maynooth University; Matthew Lehnert, Al Akhawayn University
- *Evaluating Impacts of Existing Approaches Applied to Account for Spatial Dependencies in Machine Learning Methods on Prediction Accuracy.....*Emre Tepe, University of Florida
- *What Drives Urban Redevelopment Activities? Evidence from Machine-Learning in Three US Cities Based on Unbalanced Data.....*Hanxue Wei, Cornell University; John Carruthers, Cornell University
- *Mapping poverty in low- and middle- income countries using asset-based measures and geospatial big data.....*Yating Ru, Cornell University; Chris Barrett, Cornell University; Elizabeth Jane Tennant, Cornell University; Peizan Sheng, Cornell University

- *A machine learning approach to obtain functional migration regions.....*Antonio Paez, McMaster University

Discussants:

- Antonio Paez, McMaster University
- Kevin Credit, Maynooth University
- Emre Tepe, University of Florida
- Hanxue Wei, Cornell University
- Yating Ru, Cornell University

**69. Great Minds in Regional Science [Special Session]
Friday | 5:30 pm-6:15 pm | Soprano C**

Organizers: Karima Kourtit, Open University, The Netherlands; Peter Nijkamp, Open University, Heerlen, The Netherlands

President: Peter Batey, University of Liverpool

- *Great Minds in Regional Science: Yorgos Papageorgiou.....*Bruce Newbold, McMaster University

**70. Isserman Lecture [Special Session]
Friday | 6:15 pm-7:15 pm | Soprano A**

President: Luc Anselin, University of Chicago

- *Coming Full Circle: Identifying Issues and Informing Action in Regional Science.....*Sarah Low, University of Illinois at Urbana-Champaign

**71. Reception for Isserman Lecture [Informal meeting]
Friday | 7:15 pm-8:15 pm | Soprano A**

Coffee [Informal meeting]

Saturday | 7:30 am-8:30 am | Grand Salon Opera Foyer

Registration & Exhibits [Registration and Exhibits]

Saturday | 7:30 am-10:00 am | Grand-Salon Opera Foyer

72. Inequality: Regional Dynamics & Socio-Economic Impacts [Formal Paper Session]

Saturday | 8:00 am-10:00 am | Symphonie 1

President: Kwasi Tabiri, Kwame Nkrumah University of Science and Technology

- *Public Debt and Regional Inequality in India: A Spatial Analytics Approach.....*Sudhir Thakur, California State University Sacramento
- *Re-examining patterns of regional income inequality in the U.S., 1970-2020.....*Annie Lee, McGill University; Sébastien Breau, McGill University

- *Measuring the Value of Rent Stabilization and Understanding its Implications for Racial Inequality: Evidence from New York City.....*Ruoyu Chen, University of Windsor; Hanchen Jiang, University of North Texas; Luis Quintero, Johns Hopkins University
- *A disaggregated analysis of socioeconomic inequalities in childhood malnutrition in Nigeria.....*Jacob Novignon, Kwame Nkrumah University of Science and Technology; Chukwuedo Susan Oburota, University of Calabar; Kwasi Tabiri, Kwame Nkrumah University of Science and Technology

Discussants:

- Kwasi Tabiri, Kwame Nkrumah University of Science and Technology
- Sudhir Thakur, California State University Sacramento
- Annie Lee, McGill University
- Ruoyu Chen, University of Windsor

73. Regional/Rural Development VIII - Regional and Rural Finances [Formal Paper Session]

Saturday | 8:00 am-10:00 am | Symphonie 3A

Organizers: Sarah Low, University of Illinois at Urbana-Champaign; Stephan Weiler, Colorado State University

President: Austin Landini, University of Missouri - Columbia

- *Credit Constraints on Military Spouses.....*Kristopher Deming, Michigan State University; Craig Carpenter, Michigan State University
- *CRA and the Geographic Dispersion of PPP Loans.....*Austin Landini, University of Missouri - Columbia; Kristopher Deming, Michigan State University; Stephan Weiler, Colorado State University
- *Potential Impacts of Social Security Cash Reserve Depletion and Proposed Program Reform on Next Generation Low-income Rural Recipients.....*Tracey Farrigan, U.S. Department of Agriculture; Leif Jensen, Pennsylvania State University
- *The Role of Personal Bankruptcy Protections on Entrepreneurship: Cushion v. Forgiveness.....*Ignacio Correias, Colorado State University; Stephan Weiler, Colorado State University

Discussants:

- Austin Landini, University of Missouri - Columbia
- Tracey Farrigan, U.S. Department of Agriculture
- Kristopher Deming, Michigan State University
- John Pender, USDA Economic Research Service

**74. “Analysis of Economic Viability, Resilience and Sustainability of Transportation Logistics Systems in Post-Conflict Zones” [Formal Paper Session]
Saturday | 8:00 am-10:00 am | Symphonie 3B**

Organizers: Adam Rose, University of Southern California; Kieran Donaghy, Cornell University

Presiders: Adam Rose, University of Southern California; Peter Nijkamp, Open University, Heerlen, The Netherlands;

- *Putting it Together: Assembling and Solving a Dynamic Spatial Computable General Equilibrium Model in EMP.....*Kieran Donaghy, Cornell University
- *Markets and Port Infrastructure.....*Terry Clower, George Mason University; Laurie Schintler, George Mason University; Camilla Bosanquet, George Mason University
- *“Expert Elicitation to Specify Stakeholder Objectives in Transportation Infrastructure Development” ation Infrastructure Development.....*Richard John, University of Southern California; Adam Rose, University of Southern California; Denton Cohen, University of Southern California
- *Post-War Lessons and Actions on Regions in Disruption: Cascadic Prosilience Investments.....*Peter Nijkamp, Open University, Heerlen, The Netherlands; Karima Kourtit, Open University, The Netherlands

Discussants:

- Peter Nijkamp, Open University, Heerlen, The Netherlands
- Kieran Donaghy, Cornell University
- Terry Clower, George Mason University
- Adam Rose, University of Southern California

Panelists:

- Kieran Donaghy, Cornell University
- Terry Clower, George Mason University
- Laurie Schintler, George Mason University
- Camilla Bosanquet, George Mason University
- Richard John, University of Southern California
- Adam Rose, University of Southern California
- Denton Cohen, University of Southern California

**75. Food & Waste [Formal Paper Session]
Saturday | 8:00 am-10:00 am | Symphonie 4A**

Presider: Bartlomiej Rokicki, University of Warsaw

- *Refining food access metrics for more actionability.....*Shriya Rangarajan, Cornell University

- *We Love Green: Households' Valuation of Organic Farming and Challenges of Signalling.....*Marine Coinon, Toulouse School of Economics; Rachel GUILLAIN, University of Burgundy; Sophie Legras, INRA - Dijon
- *Effects of Veterinarians on Foodborne Illness and Meat Output: Evidence From the Veterinary Medicine Loan Repayment Program.....*Ben Blemings, Cornell University; Clinton Neill, Cornell University
- *Compulsory solid waste collection in Poland – spatial inequalities and their determinants.....*Bartłomiej Rokicki, University of Warsaw; Raul Silveira Neto, Federal University of Pernambuco; Magdalena Miśkowiec, Jagiellonian University

Discussants:

- Bartłomiej Rokicki, University of Warsaw
- Shriya Rangarajan, Cornell University
- Rachel GUILLAIN, University of Burgundy
- Ben Blemings, Cornell University

76. Honoring and Celebrating Arthur Getis: A LEGEND in Spatial Analysis I [Special Session]

Saturday | 8:00 am-10:00 am | Soprano A

Organizers: Alan Murray, University of California - Santa Barbara; Luc Anselin, University of Chicago; Sergio Rey, University of California - Riverside

President: Luc Anselin, University of Chicago

- *The contributions of Art Getis to Regional Science and Spatial Analysis.....*Luc Anselin, University of Chicago; Sergio Rey, San Diego State University; Alan Murray, University of California - Santa Barbara
- *Statistical Hot Spot Maps: A Spatial Bibliometric Festschrift in Honor of Art Getis.....*Lauren Griffin, Esri; Kevin Butler, Esri; Colleen Conner, Esri
- *Inspired by Art.....*Peter Rogerson, Arizona State University
- *The Art of regional science.....*Alan Murray, University of California - Santa Barbara

Discussants:

- Peter Rogerson, Arizona State University
- Alan Murray, University of California - Santa Barbara
- Sergio Rey, University of California - Riverside
- Lauren Griffin, Esri

77. Social Media in Region Science Panel Discussion [Panel]

Saturday | 8:00 am-10:00 am | Symphonie 2A

Organizers: Amanda Weinstein, University of Akron; John Winters, Iowa State

University; John Spring, NARSC

President: John Spring, NARSC

Panelists:

- Rachel Franklin, Newcastle University
- Mike Moffatt, Ivey Business School and Smart Prosperity Institute
- Marisa Peacock, Founder and Chief Strategist at the Strategic Peacock; Lecturer, Charles H. Sandage Department of Advertising, University of Illinois at Urbana Champaign
- Amanda Weinstein, University of Akron

Coffee [Informal meeting]

Saturday | 10:00 am-10:30 am | Grand Salon Opera Foyer

78. Skills, Earnings, & Income [Formal Paper Session]

Saturday | 10:30 am-12:30 pm | Symphonie 2A

President: Valérie von Gleichen, University of Wuerzburg

- *Cities, Aggregate Income, and Growth in Germany.....*Katja Gehr, University of Wuerzburg; Michael Pflüger, University of Wuerzburg
- *The Changing Geography of Skills and Real Income.....*Anthony Frigon, HEC MONTREAL; Michael Storper, University of California, Los Angeles
- *Regional Changes in Minimum Wage and their Effect on the US Labor Market.....*Dawn Otterby, University of Maine; Andrew Crawley, University of Maine; Todd Gabe, University of Maine
- *The earnings premium in bigger cities - Evidence from Germany.....*Valérie von Gleichen, University of Wuerzburg

Discussants:

- Valérie von Gleichen, University of Wuerzburg
- Katja Gehr, University of Wuerzburg
- Anthony Frigon, HEC MONTREAL
- Dawn Otterby, University of Maine

79. Regional/Rural Development IX - Minority Banking and Entrepreneurship [Formal Paper Session]

Saturday | 10:30 am-12:30 pm | Symphonie 3A

Organizers: Sarah Low, University of Illinois at Urbana-Champaign; Stephan Weiler, Colorado State University

President: Tessa Conroy, University of Wisconsin - Madison

- *Place-Based Tax Incentives and Minority Employment: Evidence from New Market Tax Credit (NMTTC) Program.....*Anil Rupasingha, USDA Economic

Research Service; Alex Marré, National Telecom. and Information Administration; Josemari Feliciano, USDA – Rural Development

- *Demographic Transition and Census Tract Economic Opportunity: A Study of Colorado.....*Austin Landini, University of Missouri - Columbia
- *Pushed, Pulled, and Stuck: Labor Markets and New Businesses Owned by People of Color.....*Tessa Conroy, University of Wisconsin - Madison; Austin Landini, University of Missouri - Columbia
- *"Let Us Put Our Moneys Together:" Minority-Owned Banks, Local Economic Development, and Resilience to Crises.....*Allen Berger, University of South Carolina; Maryann Feldman, Arizona State University; William Langford, University of North Carolina - Chapel Hill; Raluca Roman, Federal Reserve Bank of Philadelphia

Discussants:

- William Langford, University of North Carolina - Chapel Hill
- Anil Rupasingha, USDA Economic Research Service
- Tessa Conroy, University of Wisconsin - Madison
- Austin Landini, University of Missouri - Columbia

**80. Disease Mitigation [Formal Paper Session]
Saturday | 10:30 am-12:30 pm | Symphonie 4A**

Presider: Clio Andris, Georgia Institute of Technology

- *City and Regional Demand for Vaccines Whose Supply Arises from Competition in a Bertrand Duopoly.....*Amit Batabyal, Rochester Institute of Technology; Hamid Beladi, University of Texas at San Antonio
- *Human-Network Regions as Geographic Units for Disease Mitigation.....*Clio Andris, Georgia Institute of Technology; Caglar Koylu, University of Iowa; Mason Porter, University of California - Los Angeles
- *Optimizing spatial interventions for coupled economic-epidemic systems in an urban megaregion.....*Gong Zhaoya, Peking University; Lou Huiping, Peking University; Chen Zhenhua, Ohio State University

Discussants:

- Gong Zhaoya, Peking University
- Amit Batabyal, Rochester Institute of Technology
- Clio Andris, Georgia Institute of Technology

**81. Honoring and Celebrating Arthur Getis: A LEGEND in Spatial Analysis II
[Special Session]
Saturday | 10:30 am-12:30 pm | Soprano A**

Organizers: Alan Murray, University of California - Santa Barbara; Sergio Rey,

University of California - Riverside; Luc Anselin, University of Chicago
President: Lauren Griffin, Esri

- *Left Behind and Left Out? Evaluating (Dis)connections in the Spatially Focused Migration Network of England and Wales.....*Rachael Sanderson, Newcastle University; Rachel Franklin, Newcastle University; Danny MacKinnon, Newcastle University; Joe Matthews, Newcastle University
- *A Spatio-temporal Ecological Model of COVID-19 Vaccination Disparities in Texas.....*Michael Tiefelsdorf, University of Texas - Dallas; Kyunghye Rhyu, University of Texas - Dallas
- *Identifying the poverty alleviation through space-time hot spots analysis from night-time images: A case study in Eastern Economic Corridor, Thailand.....*Dongmei Chen, Queen`s University; Sirikul Hutasa-Tungsapdougto, Queen`s University
- *Mind the Forgotten Middle: The Bivariate Local Geary's C.....*Ran Tao, University of South Florida; Jean-Claude Thill, University of North Carolina - Charlotte

Discussants:

- Rick Church, University of California - Santa Barbara
- Jean-Claude Thill, University of North Carolina - Charlotte
- Tong Zhang, Purdue University
- Elijah Knapp, University of California - Riverside

82. Clusters [Special Session]
Saturday | 10:30 am-12:30 pm | Symphonie 1

Organizers: Timothy F. Slaper, Indiana University; Kerry Fang, Florida state university
President: PING Zheng, Indiana University

- *Spatio-temporal localisation pattern of technological startups – RNN in predicting intra-urban startups' clusters.....*Maria Kubara, University of Warsaw
- *Cross-border global climate change mitigation technology diffusion: A network perspective.....*Jianhua Zhang, Groningen University; Dimitris Ballas, Groningen University; Xiaolong Liu, Groningen University
- *Migration, Economic Growth and Spatial Effects: Evidence from City Clusters in China.....*Zehan Pan, Fudan University; Xiaochen Zhang, Duke Kunshan University; Gang Li, Fudan University
- *Building Industry Clusters from the Ground Up: Defining and measuring industry development for precision policies and specific regions.....*PING Zheng, Indiana University; Timothy F. Slaper, Indiana University

Discussants:

- PING Zheng, Indiana University
- Maria Kubara, University of Warsaw

- Jianhua Zhang, Groningen University
- Xiaochen Zhang, Duke Kunshan University

**83. Papers in Regional Science Lecture [Special Session]
Saturday | 10:30 am-12:30 pm | Symphonie 3B**

President: Rosella Nicolini, Universitat Autònoma de Barcelona

- *The Impacts of More Severe Weather Events on Housing Markets.....*Amanda Ross, University of Alabama

Discussant:

- Edward Coulson, University of California - Irvine;

**NARSC Awards Luncheon [Business Meeting]
Saturday | 12:30 pm-2:30 pm | Grand Salon Opera**

**84. The Transportation System: Impact of Investments [Formal Paper Session]
Saturday | 2:45 pm-4:45 pm | Symphonie 1**

President: Tobie Cusson, Imperial College London

- *Can a Supply Change in Mass Transit can (re)Shape Urbanization? The Example of the Tramway in Dijon (France).....*Jean Dube, Université Laval; Mohamed Hilal, Institut Agro Dijon; Julie Le Gallo, Institut Agro Dijon; Diego Legros, Université de Bourgogne
- *The Impact of Public Transit on Firms' Survival: the Case of the Laval Subway.....*Marie-Pier Champagne, Laval University; Jean Dube, Université Laval
- *The welfare effects of spatial re-organisation: broadening the theoretical foundations of appraisal.....*Tobie Cusson, Imperial College London; Daniel Hörcher, Imperial College London; Roger Vickerman, Imperial College London; Daniel Graham, Imperial College London
- *Examining the relationship between transit, gentrification, and neighborhood characteristics.....*Adam Schmidt, North Carolina State University; Eleni Bardaka, North Carolina State University

Discussants:

- Adam Schmidt, North Carolina State University
- Jean Dube, Université Laval
- Marie-Pier Champagne, Laval University
- Tobie Cusson, Imperial College London

**85. Innovation & Entrepreneurship [Formal Paper Session]
Saturday | 2:45 pm-4:45 pm | Symphonie 2A**

President: Tom Kemeny, University of Toronto

- *The Cascadia Innovation Corridor: The Making of a High Tech Cross Border Region?.....*Kathrine Richardson, San Jose State University
- *Regional Innovation, Age Structure and Productivity: Evidence from China's Patent Data.....*Xiaochen Zhang, Duke Kunshan University; Min Zhang, Soochow University
- *SMEs Under Water. The Impact of Households' Capital Shocks on SMEs.....*Rebecca Mari, London School of Economics
- *Disruptive innovation and spatial inequality.....*Tom Kemeny, University of Toronto; Sergio Petralia, Utrecht University; Michael Storper, University of California, Los Angeles

Discussants:

- Tom Kemeny, University of Toronto
- Kathrine Richardson, San Jose State University
- Xiaochen Zhang, Duke Kunshan University
- Haifeng Qian, University of Iowa
- Rebecca Mari, London School of Economics

**86. Regional/Rural Development X - Potpourri [Formal Paper Session]
Saturday | 2:45 pm-4:45 pm | Symphonie 3A**

Organizers: Sarah Low, University of Illinois at Urbana-Champaign; Stephan Weiler, Colorado State University

President: Belinda Archibong, Columbia University

- *Going Native: Adopting Local Heuristics for Rural and Regional Development Projects.....*Chayce Kenny, Saint Louis University
- *The Epidemic Effect: Epidemics, Institutions and Human Capital Development.....*Belinda Archibong, Columbia University; Francis Annan, Georgia State University; Uche Ekhaton-Mobayode, World Bank
- *Trade, Offshoring, and Manufacturing Employment Volatility in Mexico.....*Adam Walke, Colorado State University

Discussants:

- Adam Walke, Colorado State University
- Chayce Kenny, Saint Louis University
- Belinda Archibong, Columbia University

**87. Alternative Vehicles: Perceptions, Impacts & Production [Formal Paper Session]
Saturday | 2:45 pm-4:45 pm | Symphonie 3B**

President: Thomas Klier, Federal Reserve Bank of Chicago

- *Technological Change for Precarious Work: Perception of Autonomous Vehicles from Transportation Platform Drivers.....*Sicheng Wang, Michigan State University; Elizabeth Mack, Michigan State University
- *Estimating Macroeconomic Impacts of NEVI.....*Yue Ke, Argonne National Laboratory; Marianne Mintz, Argonne National Laboratory; Yan Zhou, Argonne National Laboratory
- *North America's Rapidly Growing EV Market: Implications for the Geography of Vehicle Production.....*Thomas Klier, Federal Reserve Bank of Chicago; Jim Rubenstein, Miami University

Discussants:

- Sicheng Wang, Michigan State University
- Yue Ke, Argonne National Laboratory
- Thomas Klier, Federal Reserve Bank of Chicago

88. Honoring and Celebrating Arthur Getis: A LEGEND in Spatial Analysis III [Special Session]

Saturday | 2:45 pm-4:45 pm | Soprano A

Organizers: Alan Murray, University of California - Santa Barbara; Luc Anselin, University of Chicago; Sergio Rey, University of California - Riverside

President: Dongmei Chen, Queen's University

- *Spatially Constrained Regime Regression.....*Luc Anselin, University of Chicago; Pedro Amaral, Universidade Federal de Minas Gerais
- *Measuring Two Decades of Urban Spatial Structure: The Evolution of Agglomeration Economies in American Metros.....*Elijah Knaap, University of California - Riverside; Sergio Rey, San Diego State University

Discussants:

- Michael Tiefelsdorf, University of Texas - Dallas
- Rachel Franklin, Newcastle University

-, Anupriya (a115@ic.ac.uk): 19

aboukacem, el mehdi (el-mehi.aboukacem@hotmail.fr): 24

Addae, Bright (baddae@sfu.ca): 48

Al Sayed, Kinda (kindaalsayed@cunet.carleton.ca): 32

Alvayay Torrejon, Camila (alvayayt@msu.edu): 56

Alzahrani, Fahad (falzahrani@kfu.edu.sa): 27

Amaral, Pedro (pedroamaral@cedeplar.ufmg.br): 88

Amato, Louis (lmatato@uncc.edu): 47

An, Brian (yan74@gatech.edu): 51
Anderson, Taylor (tander6@gmu.edu): 32
ANDIC, HAKAN (hakan.andic.1@ulaval.ca): 27
Ando, Amy (amyando@illinois.edu): 65
Andre, Torre (andre.torre@wanadoo.fr): 18
Andris, Clio (clio.andris@gmail.com): 80
Annan, Francis (fannan@gsu.edu): 86
Anselin, Luc (anselin@uchicago.edu): 70,76,81,88
Araujo, Inacio (inaciofaj@gmail.com): 40
Archibong, Belinda (ba2207@columbia.edu): 86
Arora, Prateek (pa2178@nyu.edu): 66
Ascani, Andrea (andrea.ascani@gssi.it): 15,21,47
Auguste, Marisa (marisa.auguste@uconn.edu): 50
Baez, Carlos (cabaez@gmail.com): 37,54
Baik, Jiwon (jiwonbaik@ucsb.edu): 37,46
Bailey, Megan (megan.rae.bailey@maine.edu): 30
Ballas, Dimitris (d.ballas@rug.nl): 3,36,82
Bansal, Prateek (prateekb@nus.edu.sg): 19
Bardaka, Eleni (ebardak@ncsu.edu): 12,20,45,84
Barkham, Richard (richard.barkham@cbre.com): 15
Barrett, Chris (cbb2@cornell.edu): 68
Barrington-Leigh, Chris (cpbl@alumni.stanford.edu): 34
Bastos, Suzana Quinet (quinet.bastos@ufjf.edu.br): 11
Batabyal, Amit (aabgsh@rit.edu): 9,80
Batey, Peter (Pwjbatey@liverpool.ac.uk): 38,69
Beladi, Hamid (Hamid.Beladi@utsa.edu): 80
Bell, Kathleen (kpbell@maine.edu): 17
Bemrose, Robby (robby.bemrose@statcan.gc.ca): 54
Berger, Allen (aberger@moore.sc.edu): 79
Berger, Julius (Berger@ifo.de): 27
Bettarelli, Luca (luca.bettarelli@unimib.it): 15,31
Betz, Michael (betz.40@osu.edu): 23,59
Beziat, Adrien (adrien.beziat@univ-eiffel.fr): 4
Biedny, Christina (cbiedny@okstate.edu): 63
Biolsi, Chris (christopher.biolsi@wku.edu): 60
Blemings, Ben (benblemings@gmail.com): 75
Boarnet, Marlon (boarnet@usc.edu): 12,62
Bond-Smith, Steven (bondsmi@hawaii.edu): 21,35
Bonet, Jaime (jaimebonet@yahoo.com): 40
Bosanquet, Camilla (cbosanqu@gmu.edu): 74
Bourdeau, Jean-Simon (jean-simon.bourdeau@polymtl.ca): 41
Bourdin, Sébastien (sbourdin@em-normandie.fr): 18
Bouzouina, Louafi (louafi.bouzouina@entpe.fr): 3,4,5,6
Breau, Sébastien (sebastien.breau@mcgill.ca): 72

Brown, Jason (jason.brown@kc.frb.org): 34
Brown, Mark (mark.brown@statcan.gc.ca): 10,54
Brugières, Roman (roman.bruguiere@eleve.ensai.fr): 30
Brunelle, Cédric (cedric.brunelle@inrs.ca): 30,47
Buckley, Patrick (patrick.buckley@wwu.edu): 42
bunten, devin michelle (bunten@mit.edu): 21
Butler, Kevin (KButler@esri.com): 76
Caballero, Peter (PCaballero@psrc.org): 52
Cabuay, Christopher J. (christopher.cabuay@dlsu.edu.ph): 62
Candela, Guido (guido.candela@unibo.it): 49
Capello, Roberta (roberta.capello@polimi.it): 15
Caragliu, Andrea (andrea.caragliu@polimi.it): 15,24,39,57
Cardenas Morales, Diego Andres (diego-andres.cardenas-morales.1@ulaval.ca): 21
Carpenter, Craig (cwcarp@msu.edu): 63,73
Carruthers, John (jc3474@cornell.edu): 11,28,68
Carruthers, John (john.carruthers@cornell.edu): 62
Carvajal, Lidia (lcarvajal_2000@yahoo.com): 18
Castellanos-Sosa, Francisco (f.castellanos@utexas.edu): 37,54
Cebula, Richard (dr.richardcebula@gmail.com): 47
Celbis, Guney (celbis@merit.unu.edu): 6
Centuriao, Daniel (dc00041@mix.wvu.edu): 66
Cerisola, Silvia (silvia.cerisola@polimi.it): 29
Chacón-Hurtado, Davis (dchaconh@alumni.purdue.edu): 50
Champagne, Marie-Pier (marie-pier.champagne.5@ulaval.ca): 84
Chan, Jeff (jchan@wlu.ca): 60
Chang, Ahyoung (ayjang99@uos.ac.kr): 30
Chatterji, Manas (mchatter@binghamton.edu): 50
Chatterji, Pinka (pchatterji@albany.edu): 64
Chein, Flavia (flavia.chein@ufjf.br): 16,23
Chen, Dongmei (chendm@queensu.ca): 81,88
Chen, Huanfa (huanfa.chen@ucl.ac.uk): 37
Chen, Jamie (jamie.chen@ndsu.edu): 3
Chen, Ruoyu (stevenrychen@gmail.com): 72
Chen, Xiaohong (tongjicxh@163.com): 52
Chi, Guangqing (gfc5047@psu.edu): 56
Chu, Hao (15803894305@163.com): 55
Chu, Hao (chuhao1225@gmail.com): 48
Chun, Yongwan (ywchun@utdallas.edu): 46,55
Church, Rick (rickchurch@ucsb.edu): 46,54,81
Circella, Giovanni (giovanni.circella@ugent.be): 5
Clower, Terry (tclower@gmu.edu): 74
Cohen, Denton (dentonco@usc.edu): 74
Cohen, Elior (elior.cohen@kc.frb.org): 34
Coinon, Marine (marine.coinon@gmail.com): 75

Comandon, Andre (comandon@usc.edu): 12,62
Compagnucci, Fabiano (fabiano.compagnucci@gssi.it): 35
Conley, Kelsey (kelsey.conley@usda.gov): 8
connaughton, john (jec@uncc.edu): 47
Conner, Colleen (CConner@esri.com): 76
Conroy, Tessa (tessa.conroy@wisc.edu): 43,57,79
Cornwall, Gary (gary.cornwall@bea.gov): 42
Correas, Ignacio (sargoi@yahoo.com): 73
Coulson, Edward (n.edward.coulson@gmail.com): 61,83
Court, Christa (ccourt@ufl.edu): 31,56
Craig, Steven (scraig@uh.edu): 49,60
Crawley, Andrew (andrew.crawley@maine.edu): 30,78
Credit, Kevin (kevin.credit@mu.ie): 68
Cromartie, John (john.cromartie@usda.gov): 41
Cuellar Roncancio, Yenny (yenny.cuellar@umontreal.ca): 48
Cultice, Brian (cultice.7@buckeyemail.osu.edu): 36
Cusson, Tobie (t.cusson21@imperial.ac.uk): 84
Daams, Michiel (m.n.daams@rug.nl): 15
De Abreu e Silva, Joao (jabreu@tecnico.ulisboa.pt): 5
de la Riva Agüero, Renzo (renzo.delarivaaguero@uconn.edu): 50
de Séjournet, Alice (alice.de.sejournet@vub.be): 4
Del Bo, Chiara F. (chiara.delbo@unimi.it): 59
Deller, Steven (scdeller@wisc.edu): 8,43
Dellisanti, Roberto (roberto.dellisanti@polimi.it): 11
Delmelle, Elizabeth (edelmell@uncc.edu): 58
Deming, Kristopher (demingkr@msu.edu): 73
den Nijs, Sacha (s.den.nijs@vu.nl): 16
denti, daria (daria.denti@gssi.it): 18
Devaux, Nicolas (nicolas_devaux@uqar.ca): 30,47
Dhar, Amrita (adhar@umw.edu): 60
Dineva, Polina (pdineva@udel.edu): 51
Dobbs, G. Rebecca (Gladys.dobbs@usda.gov): 51
Dobis, Elizabeth (eadobis@gmail.com): 8,41
Donaghy, Kieran (kpd23@cornell.edu): 57,66,74
Dong, Xue (547490479@qq.com): 11
Doussard, Marc (mdouss1@illinois.edu): 64
Dragicevic, Suzana (suzanad@sfu.ca): 32,48
Drucker, Joshua (jdruck@uic.edu): 64
Dube, Jean (jean.dube@esad.ulaval.ca): 21,30,47,84
Echeverri Figueroa, Vanessa (vanessa610@ucsb.edu): 37,46,54
Edzes, Arjen (a.j.e.edzes@rug.nl): 3
Ehlert, Andree (aehlert@hs-harz.de): 4
Ekhator-Mobayode, Uche (ucheekhator@gmail.com): 86
El Zein, Ali (ali@itce.alquds.ed): 4

Erfanian, Elham (el.erfanian@gmail.com): 27
Erlebacher, Gordon (gerlebacher@fsu.edu): 49
Faggian, Alessandra (alessandra.faggian@gssi.it): 21,35,47
Fakhrmoosavi, Fatemeh (moosavi@austin.utexas.edu): 45
Fan, Linlin (lpf5158@psu.edu): 9
Fan, Naifu (1810973@tongji.edu.cn): 52
Fang, Kerry (lfang3@fsu.edu): 44,49,82
Farrigan, Tracey (tracey.farrigan@usda.gov): 73
Feldman, Maryann (Maryann_Feldman@kenan-flagler.unc.edu): 79
Feliciano, Josemari (Josemari.Feliciano@usda.gov): 79
Ferreira, Sandro de Freitas (sandroffbr@gmail.com): 11
Flor, Javier (javier.flor@ieps.gob.ec): 44
FLORES, MIGUEL (miguel flores@tec.mx): 50
Fortmann, Lea (lfortmann@pugetsound.edu): 60
Franklin, Rachel (rachel.franklin@newcastle.ac.uk): 35,77,81,88
Freshwater, David (dfresh@uky.edu): 10
Frigon, Anthony (anthony.frigon@hec.ca): 78
Fu, Ellen (ellen.x.fu@gmail.com): 21
FUKUMOTO, JUNYA (fukumoto@plan.civil.tohoku.ac.jp): 42,64
Funderburg, Richard (rfund2@uis.edu): 27
Furceri, Davide (dfurceri@imf.org): 31
Gabe, Todd (todd.gabe@maine.edu): 78
Gaboardi, James (gaboardijd@ornl.gov): 12
Gambina, Debora (debora.gambina@unipa.it): 15
Garcia-Lopez, Miquel-Angel (MiquelAngel.Garcia@uab.cat): 26,36
Garcia-Salgado, Oswaldo (ogarcias@uaemex.mx): 18
Garcilazo, Enrique (JoseEnrique.GARCILAZO@oecd.org): 63
Gawande, Kishore (kishore.gawande@mcombs.utexas.edu): 24
Gehr, Katja (katja.gehr@uni-wuerzburg.de): 78
Gerritse, Michiel (gerritse@ese.eur.nl): 24
Ghadimi, Hodjat (hodjat.ghadimi@mail.wvu.edu): 34
Ghimire, Subid (sghimir@ncsu.edu): 45
Gifford, Jonathan (jgifford@gmu.edu): 26
Goetz, Stephan (sgoetz@psu.edu): 10
Gomez-Hernandez, Luz Yadira (lygomezh@unal.edu.co): 26
Gomez, Antonio (agomezgp@unavarra.es): 33
González-Val, Rafael (rafaelg@unizar.es): 14,40
Goytia, Cynthia (cgoytia@utdt.edu): 52
Graham, Daniel (d.j.graham@imperial.ac.uk): 19,26,84
Green, John (john.green@msstate.edu): 51
Griffin, Lauren (lgriffin@esri.com): 76,81
Griffith, Daniel (dagriffith@utdallas.edu): 55
Guachamín, Marcela (marcela.guachamin@epn.edu.ec): 44
Guevara Rosero, Carolina (carolina.guevara@epn.edu.ec): 44

GUILLAIN, Rachel (rachel.guillain@u-bourgogne.fr): 75
Gutierrez Amaras, Fernanda (fernanda.gutierrezamaros@gssi.it): 47
Haddad, Eduardo (ehaddad@usp.br): 39,40
Haisma, Hinke (h.h.haisma@rug.nl): 3
Han, Luyi (lkh5474@psu.edu): 10
Harel, Dalit (dalitharel2@gmail.com): 30
Hartman, Brad (bradhartman91@gmail.com): 49
Hashimoto, Hiroyuki (hiro@mba.u-hyogo.ac.jp): 23
Hawkins, Jason (jason.hawkins@unl.edu): 45,52
Heberlein, Evan (eth47@cornell.edu): 66
Heikkila, Eric (heikkila@usc.edu): 52
Heisel, Felix (felix.heisel@cornell.edu): 58
Higgins, Christopher (cd.higgins@utoronto.ca): 20
Hilal, Mohamed (mohamed.hilal@inrae.fr): 84
Hill, Edward (Hill.1973@osu.edu): 25
Ho, Chunyu (cho@albany.edu): 64
Hoang, Edward (ehoang@uccs.edu): 49
Hodge, Timothy (trhodge@oakland.edu): 61
Holloway, Paul (paul.holloway@ucc.ie): 32
Hörcher, Daniel (d.horcher@imperial.ac.uk): 26,84
Huang, Yantao (yantao.huang@austin.utexas.edu): 45
Huang, Yi (yihuang@nau.edu.cn): 31
Huang, Yonghua (yonghuahuang39@gmail.com): 48
Huang, Yongming (hym@whu.edu.cn): 11,44
Huiping, Lou (huiqinglou@pku.edu.cn): 80
HUNG, CHI-TUNG (ct@mail.mcu.edu.tw): 38,65
Hutasavi-Tungsapdougto, Sirikul (16sh48@queensu.ca): 81
Irwin, Nicholas (nicholas.irwin@unlv.edu): 7
Iskhakov, Fedor (fedor.iskhakov@anu.edu.au): 37,46
Issler, Fabiana (fabiana.issler@me.com): 17
Jackson, Randall (Randall.Jackson@mail.wvu.edu): 42
Jakabovics, Andrew (ajakabovics@enterprisecommunity.org): 51
Jansen, Thea (thea.jansen@gssi.it): 21
Jensen, Leif (lij1@psu.edu): 73
Jiang, Hanchen (hanchen.raphael@gmail.com): 19,72
John, Richard (richardj@usc.edu): 74
Johnson Gaither, Cassandra (cassandra.johnson@usda.gov): 51
Johnson, Eileen (ejohnson@bowdoin.edu): 17
Jolley, G. Jason (jolleyg1@ohio.edu): 27
Jung, Paul (paul.jung@inha.ac.kr): 24
Juul Hansen, Maria (mjh@econ.ku.dk): 37
Kacher, Nicholas (nkacher@scrippscollege.edu): 63
Kandel, Sajani (sajani.kandel001@umb.edu): 66
Kane, Kevin (ktkane@usc.edu): 50

Kang, Myounggu (mgkang@alum.mit.edu): 30
Kaplan, Sigal (sigal.kaplan@mail.huji.ac.il): 30
Kasuo, Shuhei (shuhei.kasuo.t6@dc.tohoku.ac.jp): 64
KAWAMOTO, KIYOMI (kawamoto021@toyo.jp): 58
Ke, Yue (yke@anl.gov): 20,87
Kemeny, Tom (tomkemeny@gmail.com): 85
Kenny, Chayce (chaycekenny@gmail.com): 86
Khoirunurrofik, Khoirunurrofik (khoirunurrofik@ui.ac.id): 22
Kim, Ayoung (a.kim@msstate.edu): 25,51
Kim, Dongeun (dongeun.kim@utdallas.edu): 55
Kim, Hyun (hkim56@utk.edu): 46,55
Kim, Hyun (hkim9129@gmail.com): 31
kim, seohee (seohee.kim@duke.edu): 58
Kim, Sowon (kim.7139@osu.edu): 36,56
Klaiber, H. Allen (klaiber.16@osu.edu): 38,52
Klein, Olivier (olivier.klein@entpe.fr): 4
Klier, Thomas (thomas.klier@chi.frb.org): 87
Knaap, Elijah (ek@knaaptime.com): 7,88
Knapp, Elijah (elijah.knaap@ucr.edu): 1,81
Kockelman, Kara (kkockelm@mail.utexas.edu): 45,52
Kohlhase, Janet (jkohlhase@uh.edu): 29,49
Komarek, Timothy (tkomarek@odu.edu): 61
Kono, Melissa (melissa.kono@wisc.edu): 8
Kopczewska, Katarzyna (kkopczewska@wne.uw.edu.pl): 19
Kopyt, Mateusz (mkopyt@wne.uw.edu.pl): 19
Kourtit, Karima (k_kourtit@hotmail.com): 3,4,5,6,9,38,47,50,59,69,74
Koylu, Caglar (caglar-koylu@uiowa.edu): 80
Kubara, Maria (maria.kubara@uw.edu.pl): 82
Kures, Matthew (matthew.kures@wisc.edu): 45
Lahr, Michael (lahr@rutgers.edu): 44
Landini, Austin (austin.Landini@colostate.edu): 73,79
Landini, Austin (austin.landini@missouri.edu): 73,79
Langford, William (scottlangford@unc.edu): 79
Langholz Carstensen, Christian (ch.carstensen@econ.ku.dk): 37
Laroche, Florent (Florent.Laroche@ec-nantes.fr): 3
Le Gallo, Julie (julie.le-gallo@inrae.fr): 84
Le, Thao (tle116@gsu.edu): 61
Lee, Annie (annie.lee@mail.mcgill.ca): 72
Lee, Changho (cxl200029@utdallas.edu): 55
Lee, Gunhak (gunhlee@snu.ac.kr): 37,54
Lee, Jaegeon (lejae96@snu.ac.kr): 12
Lee, Soomi (slee4@laverne.edu): 61
Legras, Sophie (sophie.legras@inrae.fr): 75
Legros, Diego (diego.legros@u-bourgogne.fr): 84

Lehnert, Matthew (M.Lehnert@aui.ma): 68
Levesque, Vanessa (vanessa.r.levesque@maine.edu): 17
Li, Gang (Gan_Lee@outlook.com): 82
Li, Liqing (liqing@fullerton.edu): 14
Li, Wenzheng (wl563@cornell.edu): 11
Li, Xiaoyin (xiaoyinl@iastate.edu): 23
Li, Xin (jxcj1830@sina.com): 11,44
Liddle, Amanda (Amanda.Liddle@colorado.edu): 7
Lim, Jaewon (jaewon.lim@unlv.edu): 4,38,50
Lin, Ge (gelin@ust.hk): 33
Lin, Sainan (sainan.lin@whu.edu.cn): 62
LIN, WEN-YEN (wylin01@mail.mcu.edu.tw): 38,65
LIU, Huan (huan.liu.b05@kyoto-u.jp): 65
Liu, Xiaolong (xiaolong.liu@rug.nl): 82
Livy, Mitchell (mlivy@fullerton.edu): 7,14
Lodi, Chiara (chiara.lodi@uniurb.it): 65
Lopes Cavalheiro Ponce Dentinho, Tomás (tomas.lc.dentinho@uac.pt): 3,4,5,6,17,33
Losada Rojas, Lisa Lorena (llosadar@gmail.com): 12,20
Low, Sarah (sarahalow@gmail.com): 8,17,25,34,43,51,63,70,73,79,86
Macdonald, Ryan (ryan.macdonald@statcan.gc.ca): 54
Macharis, Cathy (Cathy.Macharis@vub.ac.be): 4
Mack, Elizabeth (emack@msu.edu): 87
MacKinnon, Danny (danny.mackinnon@ncl.ac.uk): 35,81
Maitra, Pushkar (pushkar.maitra@monash.edu): 43
Malik, Khyati (malik.203@osu.edu): 36
Mandai, Yu (mandai@mitsui-bunko.or.jp): 40
Manganaris, Marina (mmangana@gmu.edu): 26,66
Manout, Ouassim (ouassim.manout@entpe.fr): 5
Mansury, Yuri (ymansury@iit.edu): 57,66
Marcén, Miriam (mmarcen@unizar.es): 14
Mari, Rebecca (rebeccamariamari@gmail.com): 85
Marin, Giovanni (giovanni.marin@uniurb.it): 65
Marré, Alex (amarre@ntia.gov): 79
Marshallian, Michelle (Michelle.MARSHALIAN@oecd.org): 63
Marz, Waldemar (Marz@ifo.de): 27
Matsiuk, Nadiia (nadia.matsiuk@gmail.com): 49
Matthews, Joe (joe.matthews@ncl.ac.uk): 35,81
Mazzola, Fabio (fabio.mazzola@unipa.it): 15,31
McAllister, Andrew (amcallister@oakland.edu): 61
McCann, Philip (p.mccann@sheffield.ac.uk): 15,21,35,63
McGranaghan, Christina (cmcgran@udel.edu): 51
McGranahan, David (david.mcgranahan@usda.gov): 8
Meister, Moritz (Moritz.Meister@iab.de): 62
Mellander, Charlotta (charlotta.mellander@ju.se): 59

Melo, Patricia (patricia.melo@hutton.ac.uk): 4
Messenger, Nick (messenger.37@buckeyemail.osu.edu): 14
Messer, Kent (messer@udel.edu): 51
Miller, Ray (ray.miller@colostate.edu): 43
Minner, Jennifer (j.minner@cornell.edu): 58
Mintz, Marianne (mmintz@anl.gov): 87
Miśkowiec, Magdalena (magda.miskowiec@doctoral.uj.edu.pl): 75
Modica, Marco (marco.modica@gssi.it): 65
Moffatt, Mike (mmoffatt@ivey.uwo.ca): 77
Moghadasi, Mahdis (mogham3@mcmaster.ca): 20
Mohamed, Moataz (mmohame@mcmaster.ca): 20
Mok, Diana (dmok3@uwo.ca): 52
Monge, Katherine (katherine.monge@epn.edu.ec): 44
Montazer, Avishan (avishan.montazer@uconn.edu): 50
Mora, Jhon James (jjmora@icesi.edu.co): 61
Morawetz, Ulrich (ulrich.morawetz@boku.ac.at): 52
Morency, Catherine (cmorency@polymtl.ca): 41
Mueller, Andrew G (andrew.mueller@du.edu): 51
Murray, Alan (amurray@ucsb.edu): 37,46,54,76,81,88
Murray, David (david.murray@polymtl.ca): 41
Mussoni, Maurizio (maurizio.mussoni@unibo.it): 49
Naito, Tohru (tnaito@mail.doshisha.ac.jp): 23
Nakabayashi, Masaki (mn@iss.u-tokyo.ac.jp): 40
Nakata, Toshihiko (nakata@tohoku.ac.jp): 16
Nasrudin, Rus'an (rusan.nasrudin@gmail.com): 12
Negri, Riccardo (rn2219@nyu.edu): 66
Neill, Clinton (cln64@cornell.edu): 75
Nemoto, Kazuyoshi (nemoto.kazuyoshi@tohoku.ac.jp): 16
Neto, Wilson (wilson.neto@estudante.ufjf.br): 16
Newbold, Bruce (newbold@mcmaster.ca): 13,57,69
Nicolini, Rosella (rosella.nicolini@uab.cat): 19,83
Nijkamp, Peter (pnijkamp@hotmail.com): 3,4,5,6,9,38,47,50,59,69,74
Nilsson, Isabelle (inilss01@uncc.edu): 58
Noland, Robert (rnoland@rutgers.edu): 5
Novignon, Jacob (jnovignon@knust.edu.gh): 72
Nugraha, Usep (u.nugraha27@gmail.com): 12
Nuñez, Hector (hector.nunez@cide.edu): 22
Oburota, Chukwuedo Susan (susan.oburota@unical.edu.gh): 72
Ochsen, Carsten (carsten.ochsen@uni-rostock.de): 60
Oh, Changwha (coh4@vols.utk.edu): 46
Okuyama, Yasuhide (okuyama@kitakyu-u.ac.jp): 65
Orlando, Anthony (aworlando@cpp.edu): 51
Ortega-Argilés, Raquel (raquel.ortega-argiles@manchester.ac.uk): 63
Osth, John (john.osth@oslomet.no): 6

Otterby, Dawn (dawn.otterby@maine.edu): 78
Paez, Antonio (paezha@mcmaster.ca): 20,68
Paithankar, Priyanka (priyanka.paithankar@utexas.edu): 45
Palm-Forster, Leah (leahhp@udel.edu): 51
Palma, Alessandro (alessandro.palma@gssi.it): 21
Pan, Zehan (panzehan@fudan.edu.cn): 82
Paredes, Dusan (dparedes@ucn.cl): 56
Park, Gina Yeonkyeong (yp394@cornell.edu): 9
Partridge, Mark (partridge.27@osu.edu): 64
Patrick, Carlianne (cpatrick@gsu.edu): 36,64
Patuelli, Roberto (roberto.patuelli@unibo.it): 49
Paul, Laura (laura.anne.paul@gmail.com): 51
Peacock, Marisa (marisa@strategicpeacock.com): 77
Peiret-Garcia, Clara (c.peiret-garcia2@newcastle.ac.uk): 20
Pender, John (john.pender@usda.gov): 63,73
Peng, Xuequan Elsie (xuepeng@sas.upenn.edu): 52
Perez, Javier (gjavierperezv@gmail.com): 40
Perez, Liliana (l.perez@umontreal.ca): 32,48
Perrine, Kenneth (kperrine@utexas.edu): 45
Peters, Cornelius (Cornelius.Peters@thuenen.de): 62
Petralia, Sergio (s.g.petralia@uu.nl): 85
Pflüger, Michael (michael.pflueger@uni-wuerzburg.de): 78
Pinto, Cristine (cristinepinto@gmail.com): 23
Pinto, Pablo (ppinto@central.uh.edu): 24
Pinto, Santiago (santiago.pinto@rich.frb.org): 24
Pizzuto, Pietro (pietro.pizzuto02@unipa.it): 31
Plahovinsak II, Thomas J. (plahovinsaktj@longwood.edu): 51
Pludow, B. Amelia (bapludow@geog.ucsb.edu): 37,54
Pochet, Pascal (Pascal.Pochet@entpe.fr): 4
Poland, Ken (Poland.87@osu.edu): 25
Porter, Mason (mason@math.ucla.edu): 80
Procópio, Igor Vieira (igor.procopio@ufjf.br): 23
Pyrialakou, Dimitra (vdpyriala@gmail.com): 12,20
Qian, Haifeng (haifeng-qian@uiowa.edu): 22,85
Qiao, Xiaohui (xiaohui.qiao@ufl.edu): 31
Quintero, Luis (leq@jhu.edu): 19,72
Rahman, Md. Mokhlesur (mrahma12@uncc.edu): 56
Rajbhandari, Isha (irajbhandari@pugetsound.edu): 60
Rangarajan, Shriya (sr2248@cornell.edu): 58,66,75
Reed, Kyle (kyle.reed@usda.gov): 41
Reid, Neil (neil.reid@utoledo.edu): 3,4,5,6,38,47
Resmini, Laura (laura.resmini@unimib.it): 15
Resosudarmo, Budy P. (budy.resosudarmo@anu.edu.au): 12,62
Rey, Sergio (sergio.rey@ucr.edu): 1,76,81,88

Rey, Sergio (sjrey@gmail.com): 7,76,88
Rhyu, Kyunghee (kyunghee.rhyu@utdallas.edu): 81
Ricciulli, Diana (d.ricciulli@gmail.com): 40
Richardson, Kathrine (kathrine.richardson@sjsu.edu): 85
Robinson, Brian (brian.e.robinson@mcgill.ca): 34
Rodnyansky, Seva (srodnyansky@oxy.edu): 12,51,62
Rodriguez-Campbell, Alex (Alex.Rodriguez@inrs.ca): 30
Rodríguez-Pose, Andrés (a.rodriguez-pose@lse.ac.uk): 53
Roelofs, Bart (b.j.roelofs@rug.nl): 3
Rogerson, Peter (rogerson@buffalo.edu): 76
Roig Sabaté, José Luis (josepluis.roig@uab.es): 19
Rokicki, Bartłomiej (brokicki@wne.uw.edu.pl): 75
Rolheiser, Lyndsey (lyndsey.rolheiser@uconn.edu): 21
Roman, Raluca (raluca.roman@phil.frb.org): 79
Rose, Adam (adam.rose@usc.edu): 65,74
Rosen, Gillad (gillad.rosen@mail.huji.ac.il): 30
Ross, Amanda (aross@cba.ua.edu): 83
Rossen, Anja (anja.rossen4@iab.de): 62
Rosso, Giacomo (giacomo.rosso@unito.it): 36
Ru, Yating (yr97@cornell.edu): 53,68
Rubenstein, Jim (rubensjm@miamioh.edu): 87
Rupasingha, Anil (anil.rupasingha@ers.usda.gov): 79
Rupasingha, Anil (anil.rupasingha@usda.gov): 10
Rust, John (jr1393@georgetown.edu): 37
Sachdeva, Paavani (sachdeva.paavani@gmail.com): 65
Saha, Bijeta Bijen (bijetabijen@ufl.edu): 31
Sánchez, Román (rsanchezd058@alumno.uaemex.mx): 18
Sanchis-Guarner H, Rosa (r.sanchis-guarner@ub.edu): 26
Sanders, Austin (adsf3d33@gmail.com): 63
Sanderson, Rachael (r.sanderson4@newcastle.ac.uk): 35,81
Sarkar, Dipto (diptosarkar@cunet.carleton.ca): 32
Sass, Karina (karinasass@gmail.com): 17,33
Savchenko, Olesya (olesya.savchenko@ufl.edu): 31
Sayago, Juan (juantomas.sayago@gmail.com): 61
Schintler, Laurie (lschintl@gmu.edu): 18,74
Schjerning, Bertel (bertel.schjerning@econ.ku.dk): 37
Schmidt, Adam (ajschmid@ncsu.edu): 84
Schuck, Skyler (skyler.schuck@colostate.edu): 17
Sedai, Ashish (ashish.sedai@uta.edu): 43
Sengupta, Raja (raja.sengupta@mcgill.ca): 32,48
Severen, Christopher (chris.severen@gmail.com): 21
Shearmur, Richard (Richard.shearmur@McGill.ca): 21
Shen, Lily (yannans@g.clemson.edu): 61
Sheng, Peizan (ps2243@cornell.edu): 68

Shibatsuji, Yuki (yuuki.sh.eco@keio.jp): 53
Siders, AR (siders@udel.edu): 51
Silva, Gabryella Magalhães Cerqueira (gab.maga@hotmail.com): 11
Silveira Neto, Raul (rau.silveira@uol.com.br): 75
Silvestre, Javier (javisil@unizar.es): 40
Skidmore, Mark (mskidmor@msu.edu): 56
Slaper, Timothy F. (tslaper@indiana.edu): 25,82
Sohn, Jungyul (jsohn@snu.ac.kr): 12
Soukhov, Anastasia (soukhoa@mcmaster.ca): 20
Soza-Parra, Jaime (j.sozaparra@tudelft.nl): 5
Spring, John (executivedirector@narsc.org): 13,29,57,77
Staley, Samuel (sstaley@fsu.edu): 49
Stephens, Heather (heather.stephens@mail.wvu.edu): 10,28
Storper, Michael (storper@ucla.edu): 78,85
Sun, Xiaoxuan (xsun324@uwo.ca): 52
Tabiri, Kwasi (kgtabiri95@gmail.com): 72
Tao, Ran (rtao@usf.edu): 81
Tennant, Elizabeth Jane (ejt58@cornell.edu): 68
Tepe, Emre (emretepe@ufl.edu): 68
Terschan, Lauren (Lauren.Terschan@atl.frb.org): 51
Thakur, Sudhir (thakurs@csus.edu): 72
Thiede, Brian (bct11@psu.edu): 56
Thill, Jean-Claude (Jean-Claude.Thill@uncc.edu): 24,56,81
Thissen, Mark (Mark.Thissen@pbl.nl): 16
Tian, Zheng (zzt36@psu.edu): 10
Tiefelsdorf, Michael (tiefelsdorf@utdallas.ed): 81,88
Tong, Daoqin (daoqin.tong@asu.edu): 67
Tori, Sara Marie (sara.marie.tori@vub.be): 4
Trouw, Michael (mtrouw@gmail.com): 43
Tselios, Vassilis (v.tselios@panteion.gr): 53
Tsvetkova, Alexandra (Alexandra.tsvetkova@oecd.org): 47
Tuccillo, Joseph (tuccillojv@ornl.gov): 12
Turk, Umut (umut.turk@agu.edu.tr): 6
Urso, Giulia (giulia.urso@gssi.it): 35
Van Leuven, Andrew (andrew.vanleuven@okstate.edu): 8,34,43
Vanhaverbeke, Lieselot (lieselot.vanhaverbeke@vub.be): 4
Veneri, Paolo (paolo.veneri@oecd.org): 15
Vermeulen, Wessel (Wessel.VERMEULEN@oecd.org): 47
Vickerman, Roger (r.vickerman@imperial.ac.uk): 84
Vincent, Stephanie (stephanie.vincent@entpe.fr): 4
Voicu, Alexandru (alexandru.voicu@csi.cuny.edu): 44
von Gleichen, Valérie (valerie.gleichen@uni-wuerzburg.de): 78
Von Hoene, Emma (evonhoen@gmu.edu): 32
Waldorf, Brigitte (bwaldorf@purdue.edu): 20,25

Walke, Adam (adam.walke@colostate.edu): 86
Wang, Bonnie (wangbonn@usc.edu): 12
Wang, Jinfei (jfwang@uwo.ca): 52
Wang, Sicheng (wangsic4@msu.edu): 87
Wang, Yixuan (wang.13917@osu.edu): 41,56
Wang, Yu (yw2324@cornell.edu): 58,62
Watson, Philip (pwatson@uidaho.edu): 33
Wedemeier, Jan (wedemeier@hwwi.org): 4
Wei, Hanxue (hw652@cornell.edu): 14,68
Wei, Ran (ran.wei@ucr.edu): 37,46,54
Weiler, Stephan (stephan.weiler@colostate.edu): 8,17,25,34,43,51,63,73,79,86
Weinstein, Amanda (aweinstein@uakron.edu): 57,77
Welter, Caroline (caroline.welter@mail.wvu.edu): 42,66
Wen, Yaxuan (yaxuanwen@brandeis.edu): 66
Wen, Yijia (yw20bn@fsu.edu): 44,49
Westlund, Hans (hanswes@kth.se): 22
Whitacre, Brian (brian.whitacre@okstate.edu): 10,34,63
White, Mark (whitemc@missouri.edu): 8
Williams, Ryan (ryan.williams@usda.gov): 41
Winters, John (winters1@iastate.edu): 23,77
Wojan, Timothy (twojan@nsf.gov): 10
Wong, Pui Hang (wong@merit.unu.edu): 3,4,5,6
Wrenn, Douglas (dhw121@psu.edu): 52
Wu, Alfred M. (alfredwu@nus.edu.sg): 22
WU, Jie (jwu569@wisc.edu): 43
Wu, Xue (xwu9@albany.edu): 64
Xiang, Yuhang (xyhxsq121@163.com): 11,44
Xu, Yilan (yilanxu@illinois.edu): 9,31,65
Yamashita, Eric (ericcyama@hawaii.edu): 58
Yanez, Henry (henry.yanez@epn.edu.ec): 44
Ye, Zuzhao (zye066@ucr.edu): 46
Yi, Guanting (yi.445@osu.edu): 47
Younes, Hannah (hny3@ejb.rutgers.edu): 5
Young, Mischa (mischa.young@uontario.ca): 5
Zambrano, Viviana (vivianaczambrano@uconn.edu): 50
Zax, Jeffrey (zax@colorado.edu): 7
Zhang, Jianhua (jianhua.zhang@rug.nl): 82
Zhang, Joey (jz17d@fsu.edu): 49
Zhang, Min (zhangmx@suda.edu.cn): 85
Zhang, Ting (tzhang@ubalt.edu): 21
Zhang, Tong (tlzhang@purdue.edu): 33,81
Zhang, Wenwen (wenwen.zhang@ejb.rutgers.edu): 5
Zhang, Xiang (xiang.zhang7@mail.mcgill.ca): 34
Zhang, Xiaochen (xiaochen.zhang@dukekunshan.edu.cn): 85

Zhang, Xiaochen (xz256@duke.edu): 82
Zhang, Yanan (2033314236@qq.com): 11
Zhao, Hongxi (zhao.3050@buckeyemail.osu.edu): 38,52
Zhao, Lei (leizhde1984@126.com): 3
Zhao, Xialing (xkz5250@psu.edu): 9
Zhaoya, Gong (z.gong@pku.edu.cn): 80
Zheng, PING (pzheng@indiana.edu): 82
Zhenhua, Chen (chen.7172@osu.edu): 18,80
Zhou, Shuai (sxz217@psu.edu): 56
Zhou, Yan (yzhou@anl.gov): 87