

# Detailed Program

Wednesday, 13 November

**8:00 AM-5:00 PM**

**1. Workshop: Spatial Data Analysis with PySAL (Pre-Registration Required) --Wednesday Nov 13 / 8:00 AM-5:00 PM / B**

**Chairs:** Sergio Rey, University of California - Riverside; WEI KANG, University of California Riverside

**2. Workshop: IMPLAN Workshop (Pre-Registration Required) --Wednesday Nov 13 / 8:00 AM-5:00 PM / C**

**Chair:** Devin Swindall, IMPLAN

**3. Workshop: Economic Modeling with TERM-USA Using Customized RunGE (Pre-Registration Required) --Wednesday Nov 13 / 8:00 AM-5:00 PM / Phipps**

**Chairs:** Louis Roos, University of Victoria; John Madden, University of Victoria

**1:00 PM-4:00 PM**

**4. Workshop: Twitter Data for Social Science (Pre-Registration Required) --Wednesday Nov 13 / 1:00 PM-4:00 PM / Frick**

**Organizers:** Guangqing Chi, Pennsylvania State University; Junjun Yin, Pennsylvania State University

**Chair:** Guangqing Chi, Pennsylvania State University

**4:00 PM-8:00 PM**

**5. Registration --Wednesday Nov 13 / 4:00 PM-8:00 PM / Conference Level Foyer**

**6:30 PM-7:30 PM**

**6. Special Session: Words of Welcome and RSAI Fellows Plenary --Wednesday Nov 13 / 6:30 PM-7:30 PM / Monongahela**

**Chair:** Mark D. Partridge, Ohio State University

- *Neighborhoods in Space-Time Contexts* Sergio Rey, University of California - Riverside

**Discussant:**

- Jean-Claude Thill, University of North Carolina - Charlotte  
8:00 PM-9:00 PM

**7. NARSC Icebreaker Reception --Wednesday Nov 13 / 8:00 PM-9:00 PM / Urban**

**Thursday, 14 November**

**7:30 AM-8:30 AM**

**8. Coffee --Thursday Nov 14 / 7:30 AM-8:30 AM / Conference Level Foyer**

**7:30 AM-5:30 PM**

**9. Registration and Exhibits --Thursday Nov 14 / 7:30 AM-5:30 PM / Conference Level Foyer**

\

**8:00 AM-8:30 AM**

**10. : Welcome Address: Spatial Econometrics Association session (Pre-Registration Required) --Thursday Nov 14 / 8:00 AM-8:30 AM / C**

**Chair:** Giuseppe Arbia, Universita Cattolica del Sacro Cuore

**8:00 AM-10:00 AM**

**11. : NARSC Council Meeting --Thursday Nov 14 / 8:00 AM-10:00 AM / Parkview East (Invitation Only)**

**Chair:** Stephan Goetz, Pennsylvania State University

**12. Formal Paper Session: REAL, 30 years : Urban and Regional Challenges I --Thursday Nov 14 / 8:00 AM-10:00 AM / A**

**Organizer:** Sandy Dall'Erba, University of Illinois

**Chair:** Cristina Miller, Economic Research Service

- *Airbnb and Capital Investment to Neighborhoods in Chicago* Minhong Xu, Nanjing Audit University; Yilan Xu, University of Illinois

- *Moving on out...or not? Rural Hospital Closure impacts on Out-migration and Population Change* Cristina Miller, Economic Research Service; Juan Tomas Sayago Gomez, Universidad Icesi
- *Carbon Leakage or Bridging the Energy Efficiency Gap? A case of Japanese Emission Trading Scheme.* Taisuke Sadayuki, Waseda University; Toshi. H. Arimura, Waseda University
- *Fiscal Federalism and Brazilian Health System Decentralization: Evidence From a Natural Experiment* Tatiane Menezes, Federal University of Pernambuco Brazil; Julyan Lins, Federal University of Pernambuco

**Discussants:**

- Tatiane Menezes, Federal University of Pernambuco Brazil
- Taisuke Sadayuki, Waseda University
- Yilan Xu, University of Illinois
- Cristina Miller, Economic Research Service

**13. Formal Paper Session: Urban Economic Theory I --Thursday Nov 14 / 8:00 AM-10:00 AM / B**

**Chair:** Chengri Ding, University of Maryland - College Park

- *Cityscape and Building Height Regulation* Yusuke Teraji, Tezukayama University
- *Spatial configuration of a monocentric city with suburban farmers; Observations in Tokyo Metropolitan Area* Asao Ando, Tohoku Univ.; Fumio Takuma, Meikai University
- *Analysis on the Impact of Cities Administrative Rank on Firm Productivity in China* Chengri Ding, University of Maryland - College Park; Xiangwei Sun, Zhengzhou University

**Discussants:**

- Chengri Ding, University of Maryland - College Park
- Yusuke Teraji, Tezukayama University
- Asao Ando, Tohoku Univ.
- Eduardo Thome, Federal University of Parana

**14. Formal Paper Session: Environmental Issues I --Thursday Nov 14 / 8:00 AM-10:00 AM / Carnegie I**

**Organizer:** Christina Gore, Ohio State University

- *Sensitivity Analysis for Trade-Related Greenhouse Gas Emissions from U.S. Interstate Freight Transportation* Da Fei, Rutgers University
- *What Drives Battery Electric Vehicle Adoption? How Consumers' Decisions are Impacted by Regional Differences in Carbon Dioxide Emissions* Christina Gore, Ohio State University; Elena Irwin, Ohio State University; Andre Carrel, Ohio State University
- *Impact of Large Scale Water Contamination on Population Change* Sam Taylor, West Virginia University; Heather Stephens, West Virginia University

- *The Value of Environmental Quality: Estimates From Space-time Analysis* John Carruthers, Cornell University; Davide Clark, Marquette University

**Discussants:**

- John Carruthers, Cornell University
- Da Fei, Rutgers University
- Christina Gore, Ohio State University
- Sam Taylor, West Virginia University

**15. Formal Paper Session: Socio-Economic and Demographics and Regional Employment -- Thursday Nov 14 | 8:00 AM-10:00 AM | Carnegie II**

**Chair:** Suzana Bastos, Federal University of Juiz de Fora

- *Female Labor Supply Decision Among Asian Communities in the U.S.* Ye Yao, Rutgers University
- *Child Marriage Evidence from Brazil (1991-2010)* Suzana Bastos, Federal University of Juiz de Fora; Sandro de Freitas Ferreira, Federal University of Juiz de Fora; Admir Betarelli Junior, Federal University of Juiz de Fora
- *Determinants of the Economic Empowerment Among Women Farmers in Tanzania* Nari Kim, Seoul National University; Dongwhan An, Seoul National University
- *From coal mining to the streets - regional socio-economic dynamics of the informal sector in Emalahleni, South Africa* Anna Pretorius, North-West University; Phillip Blaauw, North-West University; Catherina Schenck, University of the Western Cape

**Discussants:**

- Anna Pretorius, North-West University
- Ye Yao, Rutgers University
- Sandro de Freitas Ferreira, Federal University of Juiz de Fora
- Nari Kim, Seoul National University

**16. Formal Paper Session: Regional and Rural Development I: Big Data and Dynamics -- Thursday Nov 14 | 8:00 AM-10:00 AM | Frick**

**Organizers:** Sarah Low, University of Missouri; Stephan Weiler, Colorado State University

**Chairs:** Anders Van Sandt, Texas A&M University; Craig Carpenter, Texas A&M University

- *Does the Earned Income Tax Credit Birth Establishments?* Kristopher Deming, Colorado State University
- *The Impact of Local Employment Portfolio on Business Survival* Bharman Gulati, Colorado State University; Stephan Weiler, Colorado State University
- *Anti-Counterfactual: Repealing and Replacing the Expected Trend-line Counterfactual for Calculating Resilience* Timothy Slaper, Indiana University; John Stavick, Indiana University; Riley Zipper, Indiana University
- *Inaccuracy of Public and Proprietary U.S. Regional Economic Data* Craig Carpenter, Texas A&M University; Anders Van Sandt, Texas A&M University; Rebekka Dudensing, Texas A&M University; Scott Loveridge, Michigan State University

**Discussants:**

- Craig Carpenter, Texas A&M University
- Kristopher Deming, Colorado State University
- Bharman Gulati, Colorado State University
- Timothy Slaper, Indiana University

**17. Formal Paper Session: Communities and Well-Being --Thursday Nov 14 / 8:00 AM-10:00 AM / Heinz**

**Chair:** Rebekka Aparadian, University of Toledo

- *Spatial panel analysis on the factors influencing the subjective well-being of cities: Evidence from South Korea* Zhe Hong, Seoul National University; In Kwon Park, Seoul National University
- *Comparing the Relationship Between Neighborhood Walkability and Craft Brewery Locations Across Three U.S. Cities* Rebekka Aparadian, University of Toledo; Neil Reid, Univ. Of Toledo
- *Long Term Neighborhood Effects of Religious Exposure: Evidence from Scotland* Chuhang Yin,
- *The Effects of Housing Prices on Happiness and Health: Evidence from Chinese Urban Households* Ling Liu, Xiamen University

**Discussants:**

- Ling Liu, Xiamen University
- Zhe Hong, Seoul National University
- Rebekka Aparadian, University of Toledo
- Chuhang Yin, Duke University

**18. Formal Paper Session: Entrepreneurship --Thursday Nov 14 / 8:00 AM-10:00 AM / Oliver**

**Chair:** Maria Figueroa-Armijos, American University

- *The Role of Rural Labor Markets in Female Entrepreneurship* Angela Hallowell, University of Maine; Andrew Crawley, University of Maine; Maria Figueroa-Armijos, American University
- *Ideas on Tap: Alcohol Establishments and Entrepreneurship in Sweden* Kevin Credit, University of Chicago; Orsa Kekezi, Jonkoping International Business School; Charlotta Mellander, Jönköping International Business School
- *Public Policy or Venture Capital for Women's Entrepreneurship? Financial strategies adopted by women business owners by U.S. region* Maria Figueroa-Armijos, American University
- *Entrepreneurship and the Evolution of Clusters: Analyzing the Structural Dynamics of the Innovation Network of a Regional Optics Cluster in the U.S. from 1980-2010* Robin Phelps, University of Central Florida

**Discussants:**

- Robin Phelps, University of Central Florida
- Angela Hallowell, University of Maine
- Kevin Credit, University of Chicago
- Maria Figueroa-Armijos, American University

**19. Formal Paper Session: Regions and Resilience I --Thursday Nov 14 / 8:00 AM-10:00 AM / Phipps**

**Chair:** Liz Matsunaga, University of Sao Paulo

- *The Performance of Airport Resilience to Severe Weather Events in China* Lei Zhou, Nanjing University of Information Science and Technology; Zhenhua Chen, Ohio State University
- *Assessing the Housing Price Capitalization of Near-Flooding Events* Mitchell Livy, California State University, Fullerton
- *Economic Impacts of Natural Disasters: A Myth or Mis-measure?* Seong Yun, Mississippi State University; Ayoung Kim, Mississippi State University
- *From Mud to Chaos: Impacts of the Mariana (MG, Brazil) Tailing Dam Disaster in Municipalities of the Rio Doce Basin* Liz Matsunaga, University of Sao Paulo; Ariaster Chimeli, University of Sao Paulo

**Discussants:**

- Liz Matsunaga, University of Sao Paulo
- Lei Zhou, Nanjing University of Information Science and Technology
- Seong Yun, Mississippi State University
- Mitchell Livy, California State University, Fullerton

**20. Formal Paper Session: Transportation I --Thursday Nov 14 / 8:00 AM-10:00 AM / Vandergrift**

**Chair:** John Miron, University of Toronto

- *The Differential Pricing with Discrete Choice Behavior for Time-Definite LTL Delivery Services* Cheng-Chang Lin, National Cheng Kung University
- *Universal Service Fee and its Effect on the Airline's Network Choice* Yusuke Teraji, Tezukayama University
- *Local Transportation and Inter-Jurisdictional Competition* Santiago Pinto, Federal Reserve Bank of Richmond
- *Political actors and the benefits of a transportation project* John Miron, University of Toronto

**Discussants:**

- John Miron, University of Toronto
- Santiago Pinto, Federal Reserve Bank of Richmond
- cheng-chang lin, National Cheng Kung University

- Yusuke Teraji, Tezukayama University

**21. Panel: Regional science and planning: the need to re-connect (the Regional Science Academy) --Thursday Nov 14 / 8:00 AM-10:00 AM / Carnegie III**

**Chairs:** Peter Batey, University of Liverpool; Richard Klosterman, University of Akron  
**Panelists:**

- Michael Batty, UCL
- David Boyce, UIC
- Kieran Donaghy, Cornell University

**8:30 AM-10:00 AM**

**22. Special Session: Spatial Econometrics Association Session: Environmental applications (Pre-Registration Required) --Thursday Nov 14 / 8:30 AM-10:00 AM / C**

**Chair:** Keti Lelo, University Roma Tre

- *A Spatial Analysis of Water Supply and Sewage Indicators in Pernambuco - Brazil* Josiane de Sousa Ferreira, Universidade Federal de Alagoas; Thierry Prates, Universidade Federal Rural do Rio de Janeiro; Maria Cecilia Junqueira Lustosa, Universidade Federal de Alagoas
- *Violent Conflicts, Climate Conditions and Socio-Economic Vulnerability in Africa: a Dynamic Spatial Econometric Analysis* Keti Lelo, University Roma Tre; Federica Cappelli, University Roma Tre; Caterina Conigliani, University Roma Tre; Valeria Costantini, University Roma Tre; Anil Markandya, Basque Centre for Climate Change (BC3); Elena Paglialunga, University Roma Tre; Giorgia Sforza, University Roma Tre
- *Peer Effects and Spatial Correlation in Solar Panel Adoption* Dhari Alrasheed, Kuwait University

**Discussants:**

- Josiane de Sousa Ferreira, Universidade Federal de Alagoas
- Keti Lelo, University Roma Tre
- Dhari Alrasheed, Kuwait University

**23. Special Session: Spatial Econometrics Association Session: Methodological issues I: spatial panel data models (Pre-Registration Required) --Thursday Nov 14 / 8:30 AM-10:00 AM / D**

**Chair:** James Lesage, Texas State University

- *Augmentation of the Arellano-Bond Estimator Covariance Matrix to a Spatial Covariance Process with an Empirical Application* Dayton Lambert, Oklahoma State University

- *Dynamic Spatial Panel Models: Networks, Common Shocks, and Sequential Exogeneity* Guido Kuersteiner, University of Maryland - College Park; Ingmar R. Prucha, University of Maryland - College Park
- *Bayesian model comparison for space-time dynamic panel models* James Lesage, Texas State University; Yao-Yu Chih, Texas State University

**Discussants:**

- Dayton Lambert, Oklahoma State University
- Guido Kuersteiner, University of Maryland - College Park
- James Lesage, Texas State University

**24. Business Meeting: PiRS Editorial Board --Thursday Nov 14 / 8:30 AM-10:00 AM / Parkview West (Invitation Only)**

**Chair:** Roberta Capello, Politecnico di Milano

**10:00 AM-10:30 AM**

**25. Coffee Break --Thursday Nov 14 / 10:00 AM-10:30 AM / Conference Level Foyer\_**

**10:30 AM-12:30 PM**

**26. Special Session: NARSC Presidential Plenary Session --Thursday Nov 14 / 10:30 AM-12:30 PM / Urban**

**Chair:** Neil Reid, Univ. Of Toledo

- *Network Applications in Regional Science* Stephan Goetz, Pennsylvania State University

**27. Business Meeting: LRPC Meeting --Thursday Nov 14 / 10:30 AM-12:30 PM / Parkview East (Invitation Only)**

**11:00 AM-12:30 PM**

**28. : Spatial Econometrics Association Plenary Lecture I (Pre-Registration Required) --Thursday Nov 14 / 11:00 AM-12:30 PM / C**

- *Adjusted Quasi-Score Estimator of Spatial Models with Incidental Parameters* Zhenlin Yang, Singapore Management University (Pre-Registration Required)

**12:30 PM-1:30 PM**

**29. Lunch (On Your Own) --Thursday Nov 14 / 12:30 PM-1:30 PM**

**12:30 PM-2:00 PM**

**30. : Spatial Econometrics Association: Presidential Address and Members Assembly (Pre-Registration Required) --Thursday Nov 14 / 12:30 PM-2:00 PM / Phipps**

**Chair:** Giuseppe Arbia, Universita Cattolica del Sacro Cuore

**1:30 PM-3:30 PM**

**31. : Alonso Prize Lecture --Thursday Nov 14 / 1:30 PM-3:30 PM / A**

- *The New Science of Cities* Michael Batty, UCL

**Discussant:**

- Janet Kohlhase, University of Houston

(followed by reception for lecture attendees)

**32. : NARSC Student-Author Paper Competition --Thursday Nov 14 / 1:30 PM-3:30 PM / Carnegie I**

**Chair:** Eleni Bardaka, North Carolina State University

- *Food Access in Sweden -- Changes in Store Proximity and the Role of Rrbanization* Helena Nilsson, Economics and Statistics
- *Taxes, Traffic Jam and Spillovers in the Metropolis* Tidiane Ly, Gate LSE CNRS
- *The Political Economy of Historic Districts: The Private, the Public, and the Collective* Yang Zhou, West Virginia University
- *Impact of "Must-access" Prescription Drug Monitoring Program on Prescription Opioid Overdose Deathrate* Shishir Shakya, West Virginia University

(Discussants TBA)

**33. : Innovations in Spatial Data Analysis and Modeling --Thursday Nov 14 / 1:30 PM-3:30 PM / Carnegie II**

**Chair:** Junjun Yin, Pennsylvania State University

- *A Prototype Spatial Microsimulation Model for Projecting the Spatial Distribution of Urban Ethnic Groups* Mohana Mondal, University of Waikato; Michael Cameron, University of Waikato; Jacques Poot, Vrije Universiteit Amsterdam
- *Exploring Urban Spatial Interaction Patterns: A spatial network approach with geographic context-aware geo-located Twitter data* Junjun Yin, Pennsylvania State University; Guangqing Chi, Pennsylvania State University

- *Peer Effects on Students' Academic Performance with Endogenous Friendship Structure Formation* Huibin Weng, University of Cincinnati

**Discussants:**

- Huibin Weng, University of Cincinnati
- Mohana Mondal, University of Waikato
- Junjun Yin, Pennsylvania State University

**34. : Regional Science Academy: Special Academic Session --Thursday Nov 14 / 1:30 PM-3:30 PM / Carnegie III**

**Chair:** Peter Nijkamp, Jheronimus Academy of Data Science

(Details of the Session TBA)

**35. Special Session: REAL, 30 years : Urban and Regional Challenges II --Thursday Nov 14 / 1:30 PM-3:30 PM / Frick**

**Organizer:** Sandy Dall'Erba, University of Illinois

**Chair:** Sandy Dall'Erba, University of Illinois

- *Universities and the Formation of Edge Cities: Evidence from China's Government-led University Town Construction* Yuan Wang, East China Normal University; Wei TANG, Shanghai University of Finance and Economics
- *Unexpected Natural Event and Local Housing Market: Evidence from Christchurch New Zealand* Yi Huang, UIUC
- *Restructuring Tax Policies: sectoral, household welfare and regional impacts in Brazil* Alexandre Porsse, Federal University of Parana, Brazil
- *(When) Does Migration of Displaced Workers Pay Off?* Orsa Kekezi, Jonkoping International Business School; Ron Boschma, Utrecht University

**Discussants:**

- Yi Huang, UIUC
- Alexandre Porsse, Federal University of Parana, Brazil
- Orsa Kekezi, Jonkoping International Business School
- Yuan Wang, East China Normal University

**36. Formal Paper Session: Regional and Rural Development II: Finance & Location -- Thursday Nov 14 / 1:30 PM-3:30 PM / B**

**Organizers:** Sarah Low, University of Missouri; Stephan Weiler, Colorado State University

**Chair:** Stephan Weiler, Colorado State University

- *Local public finance and revealed preferences: Inferred well-being in US cities* Dylan Jong, University of Groningen; Philip McCann, Sheffield University; Viktor Venhorst, University of Groningen

- *It's a Wonderful Loan: Community Banking and Regional Economic Resilience* Luke Petach, Belmont University; Tessa Conroy, University of Wisconsin - Madison; Jacob Moore, University of Oxford; Stephan Weiler, Colorado State University
- *Effects of Micro Loans on Establishment Dynamics: Evidence from CDFI Loans* Anil Rupasingha, USDA Economic Research Service
- *The Impacts of Industrial Diversity, Institutional Capital Access, and Establishment "Churn" on the Expansion of Existing Firms* Chad Christenson, University of Wisconsin - Madison

**Discussants:**

- Chad Christenson, University of Wisconsin - Madison
- Dylan Jong, University of Groningen
- Luke Petach, Belmont University
- Anil Rupasingha, USDA Economic Research Service

**37. Formal Paper Session: Environmental Issues II --Thursday Nov 14 / 1:30 PM-3:30 PM / Heinz**

**Chair:** Sungtae Eun, Texas Tech University

- *Analyzing the Changes of Land Use for Agricultural Land Planning -- A Case Study of Northern Yilan County, Taiwan* Wen-Yen Lin, Ming Chuan University; Chi-Tung Hung, Ming Chuan University
- *The Trend of Greenhouse Gas Emission in Japan -- The Great East Japan Earthquake* Sungtae Eun, Texas Tech University
- *Economic Vulnerability and Regional Implications of a Low Carbon-Emissions Future* David Fleming, Commonwealth Scientific and Industrial Research Organisation, Australia
- *Finding Optimal Control Measures for Invasive Species at the Local Level: a Case of Pine Wilt Disease in South Korea* Jaehyun Kim, Seoul National University; Dongwhan An, Seoul National University; Kwansoo Kim, Seoul National University

**Discussants:**

- Jaehyun Kim, Seoul National University
- Wen-Yen Lin, Ming Chuan University
- Sungtae Eun, Texas Tech University
- David Fleming, Commonwealth Scientific and Industrial Research Organisation, Australia

**38. Formal Paper Session: Housing Markets I --Thursday Nov 14 / 1:30 PM-3:30 PM / Oliver**

**Chair:** John McDonald, Univ. of Illinois at Chicago

- *Determinants of Multifamily Rents: a quantile regression approach* Qiong Peng, University of Maryland - College Park

- *Effects of Household Composition and Private Education Fees on Tenure and Sub-tenure Choices in Seoul, South Korea* SeongWoo Lee, Seoul National University; Taewan Kim, Seoul National University
- *Housing Supply in a Declining Market* John McDonald, Univ. of Illinois at Chicago
- *Job Match and Housing Tenure Self-Selection* Edward Coulson, UC Irvine; Walter D'Lima, Old Dominion University; David Jjinkins, Copenhagen University

**Discussants:**

- Edward Coulson, UC Irvine
- Qiong Peng, University of Maryland - College Park
- SeongWoo Lee, Seoul National University
- John McDonald, Univ. of Illinois at Chicago

**39. Formal Paper Session: International Trade I --Thursday Nov 14 / 1:30 PM-3:30 PM / Vandergrift**

**Chair:** Kieran Donaghy, Cornell University

- *Effect of Tariff Liberalization on Mexico's income inequality, adjusting for migration* Mary Arends-Kuenning, University of Illinois; Kathy Baylis, University of Illinois; Rafael Garduño-Rivera, Universidad Panamericana
- *A Circular Economy Model with International Trade in Resources, Waste, and Recycling Technologies* Kieran Donaghy, Cornell University
- *Cryptocurrency and Blockchain technologies for cross-border funds transfer* Rajendra Kulkarni, George Mason University; Roger R. Stough, George Mason University; Laurie Schintler, George Mason University
- *The Impact of Trade Development on the Upgrading of Industrial Structure of the "Belt and Road" Countries: An Empirical Study based on Export Product Density* Yibing Ding, Jilin University; Wei Liu, Jilin University of Finance and Economics

**Discussants:**

- Yibing Ding, Jilin University
- Mary Arends-Kuenning, University of Illinois
- Kieran Donaghy, Cornell University
- Rajendra Kulkarni, George Mason University

**2:00 PM-3:30 PM**

**40. Special Session: Spatial Econometrics Association Session: Crime and health applications (Pre-Registration Required) --Thursday Nov 14 / 2:00 PM-3:30 PM / D**

**Chair:** Henk Folmer, Groningen University

- *Homicides in Alagoas - Brazil: an Spatial Analysis with Socioeconomic Variables.* Thierry Prates, Universidade Federal Rural do Rio de Janeiro; Rhafaella

Karlla Costa Santana da Silva, Universidade Federal de Alagoas; Marco Antonio Jorge, Universidade Federal de Sergipe

- *Public Policy and Reduction of Urban Criminality: An empirical analysis of Compaz in Recife Neighborhoods* Tatiane Menezes, Federal University of Pernambuco Brazil; Andre Chagas, Sao Paulo State University; Rodrigo Ramos, Federal University of Pernambuco
- *Identifying Clusters in Disease Modelling and Mapping by Means of Bayesian Regression Models with Spatiotemporally Varying Coefficients: Methodology and Application to the Dengue Disease in Bandung, Indonesia* I Gede Nyoman Mindra Jaya, Padjadjaran University; Henk Folmer, Groningen University

**Discussants:**

- Henk Folmer, Groningen University
  - Thierry Prates, Universidade Federal Rural do Rio de Janeiro
- Tatiane Menezes, Federal University of Pernambuco Brazil

**41. Formal Paper Session: Spatial Econometric Session: Weight Matrix and Correlation (Pre-Registration Required) --Thursday Nov 14 | 2:00 PM-3:30 PM / C**

**Chair:** Kelley Pace, LSU

- *Semi-parameterized Three-dimensional W Matrix* Chang Tan, University of Groningen; Paul Elhorst, University of Groningen
- *Incomplete Factorizations For Computing Log-Determinants and Other Matrix Functions* Kelley Pace, LSU; James Lesage, Texas State University
- *Some Useful Details about Indices of Spatial Autocorrelation* Daniel Griffith, University Of Texas At Dallas; Yongwan Chun, U. of Texas at Dallas

**Discussants:**

- Chang Tan, University of Groningen
- Kelley Pace, LSU
- Yongwan Chun, U. of Texas at Dallas

**3:30 PM – 4:00 PM**

**42. Coffee Break --Thursday Nov 14 | 3:30 PM-4:00 PM | Conference Level Foyer**

**4:00 PM-6:00 PM**

**43. : Regional Science Academy: Special Academic Session --Thursday Nov 14 | 4:00 PM-6:00 PM | Carnegie III**

**Chair:** Peter Nijkamp, Jheronimus Academy of Data Science

(Details of the Session TBA)

**44. : NARSC Student-Led Paper Competition II --Thursday Nov 14 / 4:00 PM-6:00 PM / Parkview East**

**Chair:** V. Dimitra Pyrialakou, West Virginia University

- *Measuring the Process of Urban Gentrification: A Composite Measurement of the Gentrification Process in Toronto* Jason Hawkins, University of Toronto
- *Mapping Multivariate Neighborhood Trajectories: Functional Data Analysis Approach* Paul Jung, University of North Carolina - Charlotte; Jun Song, University of North Carolina - Charlotte
- *Do Regional Social Capital and Trust Matter for Immigrant Diversity and Wages?* Silje Haus-Reve, University of Stavanger; Abigail Cooke, SUNY - Buffalo
- *Offshore, Re-shore, Re-offshore: what has been happening to Global Manufacturing Location between 2000 and 2014?* Xiang GAO, Chinese Academy of Sciences; Geoffrey Hewings, REAL; Cuihong Yang, Chinese Academy of Sciences

(Discussants TBA)

**45. Formal Paper Session: REAL, 30 years : Challenges in Urban Areas and Urban Systems --Thursday Nov 14 / 4:00 PM-6:00 PM / A**

**Chair:** Sandy Dall'Erba, University of Illinois

- *Total Factor Productivity for Mexican Cities Using Stochastic Frontier Models* Rafael Garduño-Rivera, Universidad Panamericana; Hector NunezAmortegui,
- *Understanding Heterogeneous Spatial Production Externalities as the Connection between Land-use Planning and Economic Development* Haozhi Pan, University of Illinois at Urbana Champaign; Tianren Yang, University of Cambridge; Geoffrey Hewings, REAL
- *Spatial and Human Factors that Structure the Complexity of Urban Systems. The Evidence of the American System of Cities.* Tomaz Dentinho, University of Azores
- *The Larger the City, the Higher the Wages? The effects of Agglomeration Economies on Wage Gaps in Southern Brazil* Laura Calvi Gomes, Universidade Federal do Paraná; Mauricio Vaz Lobo Bittencourt, Universidade Federal do Paraná; Alexandre Porsse, Federal University of Parana, Brazil

**Discussants:**

- Haozhi Pan, University of Illinois at Urbana Champaign
- Tomaz Dentinho, University of the Azores
- Laura Calvi Gomes, Universidade Federal do Paraná;
- Rafael Garduño-Rivera, Universidad Panamericana

**46. Special Session: Spatial Econometrics Association Session: Methodological Issues II, Spatial Models (Pre-Registration Required) --Thursday Nov 14 / 4:00 PM-6:00 PM / C**

**Chair:** Gary Cornwall, Bureau of Economic Analysis

- *Spatial Seemingly Unrelated Regression Model Combined with Compositional Data Analysis Approach* Takahiro Yoshida, National Institute for Environmental Studies
- *Estimation and Inference in Spatial Models with Dominant Units* Hashem Pesaran, University of Southern California; Cynthia Yang, Florida State University
- *Sieve IV Estimation of Cross-Sectional Interaction Models with Nonparametric Endogenous Effect* Tadao Hoshino, Waseda University
- *Indirect Effects and Causal Inference: Reconsidering Regression Discontinuity Design* Gary Cornwall, Bureau of Economic Analysis; Beau Sauley, University of Cincinnati

**Discussants:**

- Takahiro Yoshida, National Institute for Environmental Studies
- Hashem Pesaran, University of Southern California
- Tadao Hoshino, Waseda University
- Gary Cornwall, Bureau of Economic Analysis

**47. Formal Paper Session: Spatial Econometrics Association Session: Microeconomic and international economics applications (Pre-Registration Required) --Thursday Nov 14 / 4:00 PM-6:00 PM / D**

**Chair:** Paolo Postiglione, University of Chieti-Pescara

- *The Role of R&D-Intensive Clusters in Regional Competition* Reinhold Kosfeld, University of Kassel; Timo Mitze, University of Southern Denmark
- *Spatial Concentration and Location Patterns of Economic Activities* Domenica Panzera, University of Chieti-Pescara; Alfredo Cartone, University of Chieti-Pescara; Paolo Postiglione, University of Chieti-Pescara
- *Re-Examining South Africa's Export to African Countries: A Spatial Gravity Model Approach* Kabeya Clement Mulamba, University of Johannesburg
- *Neighborhood effects in disaggregated consumption: evidence from Brazil* Denise Li, University of São Paulo; Andre Chagas, Sao Paulo State University

**Discussants:**

- Reinhold Kosfeld, University of Kassel
- Domenica Panzera, University of Chieti-Pescara
- Kabeya Clement uMlamba, University of Johannesburg
- Denise Li, University of São Paulo

**48. Formal Paper Session: Smart and Connected Regions --Thursday Nov 14 / 4:00 PM-6:00 PM / B**

**Chair:** Lauren McCarthy, George Mason University

- *The Optimal Provision of Information and Communication Technologies in Smart Cities* Amit Batabyal, Rochester Institute Of Technology; Hamid Beladi, University of Texas - San Antonio
- *Smart Cities and Urban Inequality* Andrea Caragliu, Politecnico di Milano; Chiara Del Bo, Università degli Studi di Milano
- *Active Travel in the Autonomous Vehicles' Era.* Lisa Losada Rojas, Purdue University; Konstantina Gkritza, Purdue University
- *Mobility, Congestion, and Inclusion: The Case of E-Scooters* Lauren McCarthy, George Mason University; Parker Reynolds, George Mason University

**Discussants:**

- Andrea Caragliu, Politecnico di Milano
- Amit Batabyal, Rochester Institute of Technology
- Lauren McCarthy, George Mason University
- Lisa Losad Rojas, Purdue University

**49. Formal Paper Session: Technology, Jobs, and Productivity --Thursday Nov 14 / 4:00 PM-6:00 PM | Carnegie I**

**Chair:** Uwe Blien, Institut fuer Arbeitsmarkt- und Berufsforschung

- *Labour Markets, Trade and Technological Progress: A Meta-Study* Nikolaos Terzidis, Rijksuniversiteit Groningen; Steven Brakman, University of Groningen; Raquel Ortega-Argiles, University of Birmingham
- *New results on the effects of technological change on the labor market* Uwe Blien, Institut fuer Arbeitsmarkt- und Berufsforschung
- *Excess Joint Ventures with Strategic Technology Non-Adoption* Keizo Mizuno, Kwansai Gakuin University

**Discussants:**

- Keizo Mizuno, Kwansai Gakuin University
- Nikolaos Terzidis, Rijksuniversiteit Groningen
- Uwe Blien, Institut fuer Arbeitsmarkt- und Berufsforschung

**50. Formal Paper Session: Accessibility --Thursday Nov 14 / 4:00 PM-6:00 PM | Carnegie II**

**Chair:** Tierra Bills, Wayne State University

- *Get to Work! Job-Education Mismatch and Spatial Mismatch Evidence at the Intra-Urban Level for a Developing Country* Gustavo Garcia, Universidad EAFIT; David Baena, EAFIT University
- *Uber and the Value of Mass-Transit Access; Evidence from U.S. Metropolitan Housing Markets* Brian Cultice, Ohio State University; Elena Irwin, Ohio State University
- *A Study of Transportation Accessibility in Small, Low Density, Rural Cities* Tierra Bills, Wayne State University

- *Public Transit Accessibility and Income Segregation* Prottoy Akbar, University of Pittsburgh

**Discussants:**

- Prottoy Akbar, University of Pittsburgh
- Gustavo Garcia, Universidad EAFIT
- Brian Cultice, Ohio State University
- Tierra Bills, Wayne State University

**51. Formal Paper Session: Regional and Rural Development III: The Urban/Rural Divide and Entrepreneurship --Thursday Nov 14 | 4:00 PM-6:00 PM | Frick**

**Organizers:** Sarah Low, University of Missouri; Stephan Weiler, Colorado State University

**Chair:** Peter Schaeffer, West Virginia University

- *Using Medium and Small Towns to Strengthen Urban-Rural Linkages in Nigeria* Geoffrey Nwaka, Institution
- *Informal Sector Activities by Rural Women Entrepreneurs: A path for Stemming Rural-Rurban Migration* Emmanuella Onyenechere, Imo State University
- *Borders, Geography, and Economic Activity: The case of China's coastal/inland divide* Hao Guo, Nanjing Audit University; Jenny Minier, University of Kentucky
- *Entrepreneurs in Economic Development: Opportunity, Necessity, and No One in the Middle* Tessa Conroy, University of Wisconsin - Madison; Sarah Low, University of Missouri

**Discussants:**

- Emmanuella Onyenechere, Imo State University
- Geoffrey Nwaka, Institution
- Tessa Conroy, University of Wisconsin - Madison
- Jenny Minier, University of Kentucky

**52. Formal Paper Session: Industrial Structure and Dynamics I --Thursday Nov 14 | 4:00 PM-6:00 PM | Heinz**

**Chair:** Paul Gottlieb, Rutgers University

- *Groups of Regional Industry Drivers in Northeast Ohio* Iryna Lendel, Cleveland State University; Merissa Piazza, Cleveland State University; Iryna Demko, Cleveland State University
- *Agglomeration Patterns of Peruvian Agriculture-related Industries: A Distance-Based Approach* Pedro Herrera Catalan, Universidad Autónoma de Madrid
- *Sippin' Suds or Smokin' Buds: Potential Competition and Collaboration between Craft Beer and Recreational Cannabis* Matthew Lehnert, University Of Toledo
- *The relationship between innovative business practices and geographic clustering for a large sample of US agricultural commodities* Paul D Gottlieb, Rutgers University; Stephan Goetz, Pennsylvania State University; Neil Reid, Univ. Of Toledo; Andy Hira,

Simon Fraser University; Elizabeth Dobis, Pennsylvania State University; Zheng Tian, Pennsylvania State University

**Discussants:**

- Paul D Gottlieb, Rutgers University
- Iryna Lendel, Cleveland State University
- Pedro Herrera Catalan, Universidad Aut3noma de Madrid
- Matthew Lehnert, University Of Toledo

**53. Formal Paper Session: City Systems and Dynamics --Thursday Nov 14 / 4:00 PM-6:00 PM / Oliver**

**Chair:** Roberta Capello, Politecnico di Milano

- *A Hierarchical Central Place System Endogenously Determined by Transport Complexity and Exchange* Jos3 Zapata, Chamberg of Commerce of the Cartagena; Nestor Garza Puentes, California State University
- *City Size Distribution and its Dynamics in Ghana* Michael Akwasi Appiah-Kubi, Xiamen University; Shihe Fu, Xiamen University
- *Evolution of Urban Hierarchies Over Time and Their Determinants* Roberta Capello, Politecnico di Milano; Andrea Caragliu, Politecnico di Milano; Michiel Gerritse, Erasmus University Rotterdam
- *Empirical Verification of the Gibrat Law for the cities of the Central American Common Market (MCCA-RD). An approach based on Panel Data.* Jorge Alberto Aragon, Universidade Federal de Rio Grande (FURG); Vivian dos Santos Queiroz Orellana, Federal University of Rio Grande do Sul (UFRGS)

**Discussants:**

- Jorge Alberto Aragon, Universidade Federal de Rio Grande (FURG)
- Jos3 Zapata, Chamberg of Commerce of the Cartagena
- Michael Appiah-Kubi, Xiamen University
- Roberta Capello, Politecnico di Milano

**54. Formal Paper Session: Public Finance I --Thursday Nov 14 / 4:00 PM-6:00 PM / Vandergrift**

**Chair:** Cynthia Rogers, University of Oklahoma

- *Revisiting the Link Between Resource Windfalls and Lazy Fiscal Collection for Local Mining Economies in Chile* Mauricio Oyarzo, Universidad de Concepción; Dusan Paredes, Universidad Cat3lica del Norte
- *Tax Increment Financing and School Finance in Oklahoma: Unraveling Equalization* Cynthia Rogers, University of Oklahoma; Stephen Ellis, University of Oklahoma

- *Local Governments' Participation in SIB Programs: A case of Pennsylvania municipalities* Laiyang Ke, Northeastern University; Shiqin Liu, Northeastern University
- *The Impact of Intergovernmental Grants on Innovation in Clean Energy and Energy Conservation: Evidence from the American Recovery and Reinvestment Act* William Bowen, Cleveland State University

**Discussants:**

- William Bowen, Cleveland State University
- Mauricio Oyarzo, Universidad de Concepción
- Cynthia Rogers, University of Oklahoma
- Laiyang Ke, Northeastern University

**6:30 PM – 8:00 PM**

**55. Thursday Evening Reception --Thursday Nov 14 / 6:30 PM-8:00 PM / Urban**

**Friday, 15 November**

**7:30 AM-8:30 AM**

**56. Coffee --Friday Nov 15 / 7:30 AM-8:30 AM / Conference Level Foyer**

**7:30 AM-5:30 PM**

**57. Registration and Exhibits: Registration and Exhibits --Friday Nov 15 / 7:30 AM-5:30 PM / Conference Level Foyer**

**8:00 AM-10:00 AM**

**58. : Inequality --Friday Nov 15 / 8:00 AM-10:00 AM / Heinz**

**Chair:** Davide Furceri, University of Palermo

- *Discriminatively Redistributive Policy and Regional dynamics in a Dual Economy* Tohru Naito, Doshisha University
- *The Regional Impact of Fiscal and Cohesion Policies in Economic Downturns: Evidence from European Countries* Davide Furceri, University of Palermo; Fabio Mazzola, University of Palermo; Pietro Pizzuto, University of Palermo
- *Trends of Spatial Inequality in Megaregions: A comparison across US, China and Europe* Ziqi Liu, The University of Texas at Austin; Ming Zhang, the University of Texas at Austin

- *Government Spending Multiplier and Regional Economic Growth: a General Equilibrium Analysis* Raphael Fernandes, University of São Paulo; Eduardo Haddad, University of Sao Paulo

**Discussants:**

- Ziqi Liu, The University of Texas at Austin
- Tohru Naito, Doshisha University
- Raphael Fernandes, University of São Paulo
- Davide Furceri, University of Palermo

**59. Formal Paper Session: REAL, 30 years : Input-Output --Friday Nov 15 / 8:00 AM-10:00 AM / A**

**Organizer:** Sandy Dall'Erba, University of Illinois

**Chair:** Geoffrey Hewings, REAL

- *What Factors Drive the Savings in the Amount of Water Used in the U.S. Agriculture?* Sandy Dall'Erba, University of Illinois; Andre Avelino, Nrel
- *Intraregional Trade Estimates for Goods-Producing Industries: Tests of RPC Estimates Using EU Data* Michael L. Lahr, Rutgers University; João Pedro Ferreira, University of Coimbra; Johannes Többen, Norwegian University of Science and Technology
- *Survey Based Versus Non-Survey Based Multi-Regional Input-Output Tables -- the case of Austria* Bartlomiej Rokicki, University of Warsaw; Oliver Fritz, Austrian Institute of Economic Research; Geoffrey Hewings, REAL; Jonathan Horridge,
- *Analyzing Border Effect between South Korea and North Korea Using Multinational Trade Models* Euijune Kim, Seoul National University; Byula Kim, Seoul National University; Hojun Lee, Seoul National University

**Discussants:**

- Euijune Kim, Seoul National University
- Oliver Fritz, Austrian Institute of Economic Research
- Michael Lahr, Rutgers University
- Bartlomiej Rokicki, University of Warsaw

**60. Formal Paper Session: Urban Economic Theory II --Friday Nov 15 / 8:00 AM-10:00 AM / B**

**Chair:** Amit Batabyal, Rochester Institute Of Technology

- *Telecommuting Technologies and Equilibrium Urban Structure* Mitsuru Ota, University of Tsukuba
- *Can Fundamental Forces Explain Urban Spatial Expansion in China?* Bai Xiuye, Xiamen University; Fu Shihe, Xiamen University
- *Using Utilitarian and Rawlsian Policies to Attract the Creative Class: A Tale of Two Cities* Amit Batabyal, Rochester Institute Of Technology; Seung Yoo, Sookmyung Women's University

- *Samuelson Meets Federalism: Local Production of a National Public Good* Jan Brueckner, University of California - Irvine; Steven Craig, University of Houston; Kangoh Lee, San Diego State University

**Discussants:**

- Steven Craig, University of Houston
- Mitsuru Ota, University of Tsukuba
- Bai Xiuye, Xiamen University
- Amit Batabyal, Rochester Institute Of Technology

**61. Formal Paper Session: Public Health and Regions I --Friday Nov 15 / 8:00 AM-10:00 AM / Carnegie I**

**Chair:** Monica Haddad, Iowa State University

- *The Effect of Prescribing Limits on Opioid-Related Mortality* Mallory Avery, University of Pittsburgh
- *Do Recessions Kill? Impacts of the Great Recession and Post-Recessionary Period on Rural Mortality Rates* Cristina Miller, Economic Research Service; Elizabeth Dobis, Pennsylvania State University
- *Examination of Social Networks, the Built Environment and Health Habits in a Neighborhood* Monica Haddad, Iowa State University; Cristina Poleacovschi, Iowa State University; Courtney Long, Iowa State University
- *Weight Change Among U.S. After Retirement* Tuyen Pham, West Virginia University

**Discussants:**

- Tuyen Pham, West Virginia University
- Mallory Avery, University of Pittsburgh
- Cristina Miller, Economic Research Service
- Monica Haddad, Iowa State University

**62. Formal Paper Session: Small Businesses, Start-Ups, and Regions --Friday Nov 15 / 8:00 AM-10:00 AM / Carnegie II**

**Chair:** Shiqin Liu, Northeastern University

- *The Innovation and Employment Effect of SBIR in Small and Non-Metro Counties* Shiqin Liu, Northeastern University
- *Does Cultural Fractionalization Impede Venture Capital Investment: Evidence from Dialectal Diversity in China* Yue Hua, Hunan University
- *The Effects of State and Local Economic Incentives on Business Start-ups in the U.S.: County-level Evidence* Mark D. Partridge, Ohio State University; Sydney Schreiner, The Ohio State University; Alexandra Tsvetkova, Organisation for Economic Co-operation and Development; Carlianne Patrick, Georgia State University

- *Entrepreneurial Ecosystems or Innovation Systems? Regional Contexts for Innovative Capacity Building of High-Tech Start-ups Versus Incumbent Firms* Wenying Fu, Northumbria University; Haifeng Qian, University of Iowa

**Discussants:**

- Wenying Fu, Northumbria University
- Shiqin Liu, Northeastern University
- Yue Hua, Hunan University
- Mark D. Partridge, Ohio State University

**63. Formal Paper Session: Industrial Structure and Dynamics II --Friday Nov 15 / 8:00 AM-10:00 AM / Carnegie III**

**Chair:** Leslie Dunn, Washington & Jefferson College

- *Social Inclusion and Competitive Insertion of the Small Cocoa Producers of Tolima in the International Markets. Global value chain analysis* Alexander Blandón López, Universidad del Tolima; Gustavo Adolfo Rubio Rodríguez, Corporación Universitaria Minuto de Dios; Janeth Gonzalez Rubio, Universidad del Tolima; Nubia Paola Ramirez Beltran, Universidad del Tolima
- *The Role of Powertrain Sourcing in Shaping the Geography of North America's Motor Vehicle Industry* Thomas Klier, Federal Reserve Bank of Chicago; James Rubenstein, Miami University
- *A State-Level Analysis of Natural Resources and Investment* Leslie Dunn, Washington & Jefferson College; Robert Dunn, Washington and Jefferson College
- *The Impacts of Transfer Payment on Industrial Agglomeration in China* Xiumin Li, Northeast Normal University

**Discussants:**

- Xiumin Li, Northeast Normal University
- Alexander Blandon Lopez, Universidad Del Tolima
- Thomas Klier, Federal Reserve Bank of Chicago
- Leslie Dunn, Washington & Jefferson College

**64. Formal Paper Session: Regional and Rural Development IV: Rural Amenities and Energy --Friday Nov 15 / 8:00 AM-10:00 AM / Frick**

**Organizers:** Sarah Low, University of Missouri; Stephan Weiler, Colorado State University

**Chairs:** Jason Brown, Federal Reserve Bank of Kansas City; Peter Stenberg, USDA Economic Research Service

- *The Great Recession and the Demand for Natural Amenities* Timothy Jaquet, Ohio State University
- *The Distributional Effects of Renewable Portfolio Standards* Hwayoung Jeon, Colorado State University

- *Estimation of Impacts of Public Land Grazing Policies at the Ranch and County Level in Elko County, Nevada* Ethan Grumstrup, University of Nevada - Reno; Thomas R. Harris, University of Nevada - Reno
- *Local Economic Implications of Transitions in U.S. Power Generation* Jason Brown, Federal Reserve Bank of Kansas City

**Discussants:**

- Jason Brown, Federal Reserve Bank of Kansas City
- Timothy Jaquet, Ohio State University
- Hwayoung Jeon, Colorado State University
- Ethan Grumstrup, University of Nevada - Reno

**65. Formal Paper Session: Commuting and Labor Markets --Friday Nov 15 / 8:00 AM-10:00 AM / Oliver**

**Chair:** Jouke van Dijk, University of Groningen

- *The Dual-earner Households and Gender Gap in Commuting Time* Annie Lee, Rutgers, The State University of New Jersey
- *People's Mobility, Labor Market Disequilibrium and Rural Development* Xue Zhang, Cornell University
- *Cross-Border Commuting between Neighbouring EU-countries* Jouke van Dijk, University of Groningen
- *Household Transportation Expenditures in Developing Countries: Evidence on the Effect of Urban Land Use Change from Pakistan* Ammar A. Malik, Harvard University; Edmund Zolnik, George Mason University; Omar Riaz, University of Sargodha

**Discussants:**

- Ammar Malik, Harvard University
- Annie Lee, Rutgers, The State University of New Jersey
- Xue Zhang, Cornell University
- Jouke van Dijk, University of Groningen

**66. Formal Paper Session: Residential Mobility and Location Choice --Friday Nov 15 / 8:00 AM-10:00 AM / Parkview East**

**Organizers:** Esteban Lopez, Universidad Adolfo Ibanez; Isabelle Nilsson, University of North Carolina at Charlotte

**Chair:** Esteban Lopez, Universidad Adolfo Ibanez

- *Labour mobility in Great Britain: What's the impact on regional earnings?* Carolin Ioramashvili, London School of Economics
- *College Education and Internal Migration in China* Xiaozhou Ding, University of Kentucky
- *Transit-Oriented Development and Housing Displacement: The case of the Chicago Red Line extension* Esteban Lopez, Universidad Adolfo Ibanez; Dwayne Baker, City University of New York; Andrew Greenlee, University of Illinois - Urbana-Champaign

**Discussants:**

- Esteban Lopez, Universidad Adolfo Ibanez
- Xiaozhou Ding, University of Kentucky
- Carolin Ioramashvili, London School of Economics

**67. Formal Paper Session: Human Capital I --Friday Nov 15 / 8:00 AM-10:00 AM / Phipps**

**Chair:** Bonnie Bounds, The Ohio State University

- *Migration, Education and Urban Divergence: Evidence from U.S. Patents* Oudom Hean, Ohio State University; Nattanicha Chairassamee, Ohio State University; Mark D. Partridge, Ohio State University
- *Disentangling the Causes of the Spatial Differences in the Wage Gap: Amenities and Knowledge Spillovers* Victor Iturra, Universidad Catolica del Norte; Rodrigo Perez-Silva, Universidad Mayor; Gustavo Ahumada, Universidad Catolica del Norte
- *Gender Polarity in US Educational Attainment* Bonnie Bounds, The Ohio State University
- *The Evolving Geography of STEM Occupations: Increasing Geographic Concentration or Emerging Spatial Diffusion?* Matt Kures, University of Wisconsin-Madison

**Discussants:**

- Matt Kures, University of Wisconsin-Madison
- Oudom Hean, Ohio State University
- Victor Iturra, Universidad Catolica del Norte
- Bonnie Bounds, The Ohio State University

**68. Formal Paper Session: Industry Clusters in Production Agriculture: General Methods and Case Studies --Friday Nov 15 / 8:00 AM-10:00 AM / Vandergrift**

**Organizer:** Paul D Gottlieb, Rutgers University

**Chair:** Neil Reid, Univ. Of Toledo

- *Detecting Agricultural Clusters with the Spatial-IO Location Quotient* Zheng Tian, Pennsylvania State University; Paul Gottlieb, Rutgers University; Elizabeth Dobis, Pennsylvania State University; Andy Hira, Simon Fraser University; Neil Reid, Univ. Of Toledo; Stephan Goetz, Pennsylvania State University
- *Identifying Best Practices for Fostering Collaboration in Agricultural Clusters* Neil Reid, Univ. Of Toledo
- *Trends in the Co-Location of Grapes and Wineries vs Hops and Breweries: 2002 TO 2017* Elizabeth Dobis, Pennsylvania State University; Neil Reid, Univ. Of Toledo; Andy Hira, Simon Fraser University; Paul D Gottlieb, Rutgers University; Stephan Goetz, Pennsylvania State University
- *Thoroughbred Stallions and their Role in the Geography of Equine Clusters* Paul D Gottlieb, Rutgers University; Karyn Malinowski, Rutgers University; Jennifer Weinert, Rutgers University; Elizabeth Dobis, Pennsylvania State University

**8:30 AM-10:00 AM**

**69. Formal Paper Session: Spatial Econometrics Association Session: Transportation Applications --Friday Nov 15 / 8:30 AM-10:00 AM / C (Pre-Registration Required)**

**Chair:** Paul Elhorst, University of Groningen

- *Car Traffic, Habit Persistence, Cross-Sectional Dependence, and Spatial Heterogeneity: New Insights using French Departmental Data* Paul Elhorst, University of Groningen; Alain Pirotte, University of Paris I Panthéon-Sorbonne; Jean-Loup Madre, IFSTTAR-DEST, France
- *How The Evolution of Public Transit Accessibility Will Influence Housing Affordability, Firm Stocks and Nightlife: Empirical Evidence from Beijing during 2012-2014* Yixin Zhang, World Bank; Tianyi Fan, Massachusetts Institute of Technology
- *Public Transportation's Effect on the Housing Market: Evidence from the Cincinnati Streetcar* Beau Sauley, University of Cincinnati

**Discussants:**

- Paul Elhorst, University of Groningen
- Yixin Zhang, World Bank
- Beau Sauley, University of Cincinnati

**70. Formal Paper Session: Spatial Econometrics Session: Models for Networks (Pre-Registration Required) --Friday Nov 15 / 8:30 AM-10:00 AM / D**

**Chair:** Olivier Parent, University of Cincinnati

- *A Structural Model for the Coevolution of Networks and Behavior* Chih-Sheng Hsieh, Chinese University of Hong Kong; Michael Konig, VU Amsterdam; Xiaodong Liu, University of Colorado Boulder
- *Estimation of a Social Interaction Model with Endogenous Network Formation* Olivier Parent, University of Cincinnati; Huibin Weng, University of Cincinnati
- *Peer Effects on Students' Academic Performance with Endogenous Friendship Structure Formation* Huibin Weng, University of Cincinnati

**Discussants:**

- Chih-Sheng Hsieh, Chinese University of Hong Kong
- Olivier Parent, University of Cincinnati
- Huibin Weng, University of Cincinnati

**10:00 AM-10:30 AM**

**71. Coffee Break --Friday Nov 15 / 10:00 AM-10:30 AM / Conference Level Foyer**

**10:30 AM-12:30 PM**

**72. Formal Paper Session: Location and Spatial Analysis I --Friday Nov 15 / 10:30 AM-12:30 PM / B**

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

**Chair:** Alan Murray, University of California - Santa Barbara

- *Ignoring the Obvious: What about Close-to-Optimal Solutions in Spatial Optimization?* Rick Church, University Of California At Santa Barbara
- *Optimal Medical Service Delivery of the Public Hospital Ship for Medically Underserved Islands* Gunhak Lee, Seoul National University; Jiwoo Kim, Seoul National University
- *Evaluation of Heuristics for the P-Median Problem: Spatial Demand Distribution and Size* Harsha Gwalani, University of North Texas; Chetan Tiwari, University of North Texas; Armin Mikler, University of North Texas
- *Continuous Approximation Model for Facility Location of Truck Platooning* Daisuke Watanabe, Tokyo Univ. of Marine Science and Technology

**Discussants:**

- Joy Bhadury, Radford University
- Susan Burtner, University of California, Santa Barbara
- Timothy Matisziw, University of Missouri
- Hyun Kim, University of Tennessee

**73. Formal Paper Session: Early Child Conditions and Development I --Friday Nov 15 / 10:30 AM-12:30 PM / Heinz**

**Organizer:** Flavia Chein, Federal University of Juiz de Fora - Brazil

**Chair:** Flavia Chein, Federal University of Juiz de Fora - Brazil

- *The Impacts of Early-Life Exposure to Droughts and Hot Temperatures on Adult Earnings in a Developing Country* Daniel DaMata, Sao Paulo School of Economics (FGV/EESP); Rodrigo Soares, Columbia University; Edson Severnini, Carnegie Mellon University
- *Family Arrangements, Prenatal Care and Health in the Early Childhood* Clarissa Benatti, Federal University of Juiz de Fora; Flavia Chein, Federal University of Juiz de Fora - Brazil; Ana Carolina Maia, University of São Paulo
- *How the Boll Weevil Left Southerners Richer and Better Educated* Ethan Schmick, Washington & Jefferson College; Werner Troesken, University of Pittsburgh; Karen Clay, Carnegie Mellon University

**Discussants:**

- Ethan Schmick, Washington & Jefferson College
- Daniel DaMata, Sao Paulo School of Economics (FGV/EESP)
- Clarissa Benatti, Federal University of Juiz de Fora

**74. Business Meeting: RSAI Council Meeting --Friday Nov 15 / 10:30 AM-12:30 PM / Parkview East**

**Chair:** Mark D. Partridge, Ohio State University

**75. Formal Paper Session: Labor Markets II --Friday Nov 15 / 10:30 AM-12:30 PM / A**

**Chair:** Amanda Weinstein, University of Akron

- *Informal Jobs, Sample Selection and Urban Wage Premium in Brazil: Evidence from 2012 to 2018* Eloiza Regina Ferreira de Almeida, Federal University of São Paulo; Veneziano de Castro Araujo, Federal University of São Paulo; Solange Ledi Gonçalves, Federal University of São Paulo
- *Effects of Regional Unemployment on Wages in Vietnam* Uwe Blien, Institut fuer Arbeitsmarkt- und Berufsforschung
- *The Impact of Military Service on Intergenerational Mobility* Amanda Weinstein, University of Akron; Francesco Renna, University of Akron
- *Long-Term Effects of Conditional Cash Transfers on Children: The Brazilian Case* Gabriel Lyrio de Oliveira, University of Sao Paulo; Andre Chagas, Sao Paulo State University

**Discussants:**

- Gabriel Lyrio de Oliveira, University of Sao Paulo
- Eloiza Almeida, Federal University of São Paulo
- Uwe Blien, Institut fuer Arbeitsmarkt- und Berufsforschung
- Amanda Weinstein, University of Akron

**76. Formal Paper Session: Environmental Issues III --Friday Nov 15 / 10:30 AM-12:30 PM / Carnegie I**

**Chair:** Karina Sass, University of São Paulo

- *An Economic Evaluation of Climate Change Effect on Urban Flood Damage: the Case of Seoul, Korea* Kihwan Yu, Seoul National University; Dongwhan An, Seoul National University; Kwansoo Kim, Seoul National University
- *Extraction, Analysis and Simulation of Climate Change patterns* Ather Ashraf, University of Punjab; Iqra Naz Raja, University of Punjab
- *Assessing the impacts of urban expansion and climate change on water demand of a megacity* Karina Simone Sass, University of São Paulo; Eduardo Haddad, University of Sao Paulo
- *Assessing Consumption-Based Carbon Emissions for the City of Bogota* Enrique Gilles, Universidad EAN

**Discussants:**

- Enrique Gilles, Universidad EAN
- Kihwan Yu, Seoul National University
- Ather Ashraf, University of Punjab
- Karina Sass, University of São Paulo

**77. Formal Paper Session: Human Capital II --Friday Nov 15 / 10:30 AM-12:30 PM / Carnegie II**

**Chair:** Ling Ling Sun, Ryukoku University

- *The Huai River Boundary, Educational Attainment and Earnings: A Tale of Weather and Sex* Jeffrey Zax, University of Colorado Boulder
- *Will the Regional Concentration of Tertiary Education Persist? The case of Europe in a Period of Rising Participation* Marcello Graziano, Central Michigan University; Kristinn Hermannsson, University of Glasgow; Rosario Scandurra, Universitat Autònoma Barcelona
- *Comparing College Wage Premiums across Geographic Areas* John Winters, Iowa State University
- *Human Capital Accumulation, Economic Growth, and Income Distribution Effects of Consumption Tax: An Analysis using an Endogenous Economic Growth Model* Ling Ling Sun, Ryukoku University; Yasuyuki Nishigaki, Ryukoku University

**Discussants:**

- Ling Ling Sun, Ryukoku University
- Jeffrey Zax, University of Colorado Boulder
- Marcello Graziano, Central Michigan University
- John Winters, Iowa State University

**78. Formal Paper Session: Industrial Structure and Dynamics III --Friday Nov 15 / 10:30 AM-12:30 PM / Carnegie III**

**Chair:** Simone Grabner, Gran Sasso Science Institute

- *Productivity Growth in Chinese Cities: The Agglomeration Effect for Cross-Regional Industrial Structures* Fa-Hsiang Chang, Wenzhou Kean University
- *Construction Sector Productivity--An International Comparison* Weitzman Nagar, Individual. previously Bank of Israel
- *Can Trade Network Dependency Explain the Compensation-Productivity Gap?* Alicia Plemmons, Southern Illinois University Edwardsville; Shishir Shakya, West Virginia University
- *The Great Recession and Industrial Resilience in the United States* Simone Grabner, Gran Sasso Science Institute

**Discussants:**

- Simone Grabner, Gran Sasso Science Institute
- Fa-Hsiang Chang, Wenzhou Kean University
- Weitzman Nagar, Individual. previously Bank of Israel
- Alicia Plemmons, Southern Illinois University Edwardsville

**79. Formal Paper Session: Urban Productivity --Friday Nov 15 / 10:30 AM-12:30 PM / D**

**Chair:** Jacob Moore, University of Oxford

- *Great Divide: Effects of Urban Productivity Growth in Non-Urban Regions* Jacob Moore, University of Oxford
- *City Size, Spatial Spillover and Productivity: Evidence from Chinese Cities* Yan Cen, Northeast Normal University; Xiumin Li, Northeast Normal University; Yuanzhe He, Northeast Normal University
- *Urban Productivity Effects of Quality of Government in a Decentralised Context* Dylan Jong, University of Groningen; Alexander Lembcke, Organisation for Economic Co-operation and Development; Rudiger Ahrend, Organisation for Economic Co-operation and Development; Alexandra Tsvetkova, Organisation for Economic Co-operation and Development
- *Urban Form and Productivity: What Shapes are Latin-American Cities?* Juan C. Duque, RiSE-group, EAFIT University; Nancy Lozano-Gracia, World Bank; Jorge E. Patino, EAFIT University; Paula Restrepo, World Bank

**Discussants:**

- Juan C. Duque, RiSE-group, EAFIT University
- Jacob Moore, University of Oxford
- Yan Cen, Northeast Normal University
- Dylan Jong, University of Groningen

**80. Formal Paper Session: Regional and Rural Development V: Housing and Health -- Friday Nov 15 / 10:30 AM-12:30 PM / Frick**

**Organizers:** Sarah Low, University of Missouri; Stephan Weiler, Colorado State University

**Chair:** Nicholas Kacher, Scripps College

- *Demand Thresholds of Health Care Services* Anders Van Sandt, Texas A&M University; Craig Carpenter, Texas A&M University; Rebekka Dudensing, Texas A&M University; Scott Loveridge, Michigan State University
- *The Role of Hospitals in Rural Economic and Community Development* Kelly Edmiston, Federal Reserve Bank of Kansas City; Tami Gurley-Calvez, University of Kansas Medical Center
- *Filtering to Affordable: The State of the National Apartment Stock as it Ages* Andrew Mueller, University of Denver; Tom PlaHovinsak, Longwood University; Lauren Terschan, Federal Reserve Bank of Atlanta
- *Boon or Burden? Evaluating the Competing Effects of House Price Shocks on Regional Entrepreneurship* Nicholas Kacher, Scripps College; Luke Petach, Belmont University

**Discussants:**

- Kelly Edmiston, Federal Reserve Bank of Kansas City
- Anders Van Sandt, Texas A&M University
- Nicholas Kacher, Scripps College
- Andrew Mueller, University of Denver

**81. Formal Paper Session: Transportation II --Friday Nov 15 / 10:30 AM-12:30 PM / Oliver**

**Chair:** Margaret Bock, West Virginia University

- *Active Commuting to School: Opportunities for São Paulo City* Livia Velho Rodrigues, Getúlio Vargas Foundation; Ciro Biderman, Getúlio Vargas Foundation
- *Per-Flight and Per-Passenger Congestion Pricing when Airline Quality differs* Xi Wan, Nanjing Audit University
- *The Causal Effect of High Occupancy Vehicle Lanes on Commuting Times in California* Margaret Bock, West Virginia University
- *Congestion Costs and Urban Concentration: The case of Chile* Esteban Lopez, Universidad Adolfo Ibanez; Patricio Aroca, CEPR- Universidad Adolfo Ibanez; Felipe Morales, Universidad Adolfo Ibanez

**Discussants:**

- Esteban Lopez, Universidad Adolfo Ibanez
- Livia Rodrigues, Getúlio Vargas Foundation
- Xi Wan, Nanjing Audit University
- Margaret Bock, West Virginia University

**82. Formal Paper Session: Regional/Spatial Aspects of the Opioid Crisis I --Friday Nov 15 / 10:30 AM-12:30 PM / Phipps**

**Organizer:** Brian Cushing, West Virginia University

**Chair:** Barbara Blake, Old Dominion University

- *More Work, More Pain? Evidence from Purchases and Sales Data.* Isabel Musse, University of Illinois
- *Understanding the Effect of State Prescription Drug Monitoring Programs on Local Opioid Mortality* Devon Meadowcroft, Pennsylvania State University; DAVID PETERS, Iowa State University; Brian Whitacre, Oklahoma State University
- *Rural Risk Environments, Opioid-Related Overdose, and Infectious Diseases: a Multidimensional, Spatial Perspective* Marynia Kolak, University of Chicago; Yen-Tyng Chen, University of Chicago Medicine; Sam Joyce, University of Chicago; Kaitlin Ellis, University of Chicago Pritzker School of Medicine; Kali Defever, University of Chicago Medicine; Colleen McLuckie, University of Illinois at Chicago; Sam Friedman, New York University; Mai Pho, University of Chicago Medicine
- *Regional Impacts of Prescription Drug Monitoring Programs (PDMPs) on U.S. Drug Overdose Deaths* Elham Erfanian, West Virginia University; Juan Tomas Sayago Gomez, Universidad Icesi; Brian Cushing, West Virginia University

**Discussants:**

- Julie Marshall, Appalachian Regional Commission
- Mark Schweitzer, Federal Reserve Bank of Cleveland
- Juan Sayago Gomez, Universidad Icesi
- DAVID PETERS, Iowa State University

**83. Formal Paper Session: Regional Issues in Water Resources --Friday Nov 15 / 10:30 AM-12:30 PM / Vandergrift**

**Organizers:** Elizabeth Mack, Michigan State University; Amanda Ross, University of Alabama

**Chair:** Amanda Ross, University of Alabama

- *Regional Changes in Crop Production and Irrigation under Climate Change: An Ex-ante Analysis of Tennessee Basin Row Crop Production* Lixia Lambert, Oklahoma State University; Burton English, University of Tennessee; Christopher Clark, University of Tennessee; Aaron Smith, University of Tennessee; Thanos Papanicolaou, University of Tennessee; Chad Hellwinckel, University of Tennessee; Christopher Boyer, University of Tennessee; Dayton Lambert, Oklahoma State University
- *A Socio-Environmental Synthesis of the Linkages Between Water Scarcity Induced Conflict and Land Use/Land Cover Change in Africa to Enhance Multi-Scalar Decision Making* Amanda Ross, University of Alabama; Elizabeth Mack, Michigan State University; Erin Bunting, Michigan State University
- *Household Expenditure Change and Cascading Effects as a Result of Increasing Costs of Water Services* Laura Medwid, Michigan State University; Elizabeth Mack, Michigan State University
- *Perceptions of Water Affordability* Elizabeth Mack, Michigan State University; Michelle Church,

**Discussants:**

- Elizabeth Mack, Michigan State University
- Lixia Lambert, Oklahoma State University
- Amanda Ross, University of Alabama
- Laura Medwid, Michigan State University

**11:00 AM-12:30 PM**

**84. : Spatial Econometrics Association Plenary Lecture II --Friday Nov 15 / 11:00 AM-12:30 PM / C (Pre-Registration Required)**

- *The Range of Interaction in Spatial Econometric Models* Luc Anselin, University of Chicago

**12:30 PM-1:30 PM**

**85. Lunch (On Your Own) --Friday Nov 15 / 12:30 PM-1:30 PM**

**12:30 PM-2:00 PM**

**86. Business Meeting: SRSA Business Meeting --Friday Nov 15 / 12:30 PM-2:00 PM / Parkview East (Invitation Only)**

**Chair:** Dayton Lambert, Oklahoma State University

## 12:30 PM-2:30 PM

**87. RSAI Fellows Luncheon (Invitation Only) --Friday Nov 15 / 12:30 PM-2:30 PM**

## 1:30 PM-3:30 PM

**88. : Technology, Globalization, and Regional Inequality --Friday Nov 15 / 1:30 PM-3:30 PM / Heinz**

**Chair:** Sharmistha Bagchi-Sen, University of Buffalo

- *What's Art Got to Do with It: Do Creative Hobbies Make STEM Workers More Inventive?* Timothy R Wojan, USDA ERS; Bonnie Nichols, National Endowment for the Arts; Peter Lenz, DStillery; Timothy Slaper, Indiana University
- *Measures of Inequality and their Use in Physical Geography and Regional Science* Peter Rogerson, University of Buffalo
- *Barriers and Facilitators of Fuel Transition in Developing Countries* Sharmistha Bagchi-Sen, University of Buffalo; Torsten Schunder, University of Buffalo
- *The Fall of the Labour Share and the Rise of the Superstar Region? Earnings and labour share in UK regions* Carolin Ioramashvili, London School of Economics

### **Discussants:**

- Peter Rogerson, University of Buffalo
- Sharmistha Bagchi-Sen, University of Buffalo
- Carolin Ioramashvili, London School of Economics
- Timothy R Wojan, USDA ERS

**89. : NARSC Student Led Paper Competition I --Friday Nov 15 / 1:30 PM-3:30 PM / Oliver**

**Chair:** Eleni Bardaka, North Carolina State University

- *Examining the Regional Economic Costs of Electric Power Grid Interruptions Associated with Increased Intermittent Renewable Resource Capacity* Amanda HarkerSteele, KeyLogic Systems Inc; John Bergstrom, University of Georgia; Wesley Burnett, College of Charleston
- *The Impact of Metropolitan Technology on the Non-Metropolitan Labor Market: Evidence from U.S. Patents* Oudom Hean, Ohio State University; Mark D. Partridge, Ohio State University
- *Do Multifamily Unit Rents Increase in Response to Planned Light Rail construction?* Qiong Peng, University of Maryland - College Park; Nicholas Finio, University of Maryland - College Park; Gerrit Knaap, University of Maryland - College Park
- *Urban Employment Subcenters: The Case of Curitiba, Brazil* Eduardo Thome, Federal University of Parana; Alexandre Porsse, Federal University of Parana, Brazil

**90. Formal Paper Session: Location and Spatial Analysis II --Friday Nov 15 / 1:30 PM-3:30 PM / B**

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

**Chair:** Ran Wei, University of California, Riverside

- *Modeling Multi-Criteria Connectivity in Ecological Landscapes* Timothy Matisziw, University of Missouri; Ashkan Gholamialam, University of Missouri; Kathleen Trauth, University of Missouri; Bryan Mayhan, University of Missouri
- *Can the AED adequately cover out-of-hospital cardiac arrests? Spatial optimization approach* Kamyoun Kim, Kyungpook National University
- *Socio-demographic characteristics at the wildland-urban interface and wildfire risk mitigation* Bryce Pludow, University of California, Santa Barbara; Alan Murray, University of California - Santa Barbara
- *Efficient Algorithms for Computing Area-based Distances* Wangshu Mu, Arizona State University; Daoqin Tong, Arizona State University

**Discussants:**

- Gunhak Lee, Seoul National University
- Harsha Gwalani, University of North Texas
- Daisuke Watanabe, Tokyo Univ. of Marine Science and Technology
- Alan Murray, University of California - Santa Barbara

**91. Formal Paper Session: Labor Markets I --Friday Nov 15 / 1:30 PM-3:30 PM / A**

**Chair:** HyunKyung Lee, Hanyang University

- *Examining Talent Attraction and Retention in Small and Medium-Sized Cities: Where do Universities Fit In?* Nene Osutei, University of California, Irvine; Jae Hong Kim, University of California - Irvine
- *Relative Cohort Size and Unemployment in the United States: Evidence from the Regional Level* Carsten Ochsén, University of Applied Labour Studies and Max Planck Institute for Demographic Research
- *Exploring the Regional Dynamics of Day Laboring in South Africa* Phillip Blaauw, North-West University; Anna Pretorius, North-West University; Catherina Schenck, University of the Western Cape
- *Development and Application of a Multi-Region Input-output Model under Factor Constraint - Focused on Regional Labor Forces* HyunKyung Lee, Hanyang University; HongBae Kim, Hanyang University

**Discussants:**

- HyunKyung Lee, Hanyang University
- Nene Osutei, University of California, Irvine
- Carsten Ochsén, University of Applied Labour Studies and Max Planck Institute for Demographic Research

- Phillip Blaauw, North-West University

**92. Formal Paper Session: Infrastructure --Friday Nov 15 / 1:30 PM-3:30 PM / Carnegie I**

**Chair:** Laura Medwid, Michigan State University

- *The Welfare impacts of Large Scale Urban Noise Reductions: Implications from Household Sorting in Vienna* H. Allen Klaiber, Ohio State University; Ulrich Morawetz, University of Natural Resources and Life Sciences, Vienna
- *Broadband Availability and Subscription Rates: An Assessment of Federal Communications Commission Data Quality* Teja Pristavec, University of Virginia; Joshua Goldstein, University of Virginia
- *Household Expenditure Change and Cascading Effects as a Result of Increasing Residential Water Cost* Laura Medwid, Michigan State University; Elizabeth Mack, Michigan State University
- *The Capitalization of Metro Rail Access in Urban Housing Markets* Zachary Keeler, West Virginia University; Heather Stephens, West Virginia University

**Discussants:**

- Zachary Keeler, West Virginia University
- H. Allen Klaiber, Ohio State University
- Teja Pristavec, University of Virginia
- Laura Medwid, Michigan State University

**93. Formal Paper Session: Housing Markets II --Friday Nov 15 / 1:30 PM-3:30 PM / Carnegie II**

**Chair:** Zachary Keeler, West Virginia University

- *How do Housing Supply Constraints Affect Urban Innovation?---- Verification Based on Deagglomeration of Innovation* Qiao Wang,; Xiuyan Liu, Southeast University
- *Housing Prices in Chengdu, China and their Association with the Distribution and Duration of Ride-Hailing Trips* Sicheng Wang, Rutgers, The State University of New Jersey; Michael L. Lahr, Rutgers University; Robert Noland, Rutgers University; Jing Han, Tongji University
- *Price and Liquidity Dynamics for Single and Multi-Family Homes During Housing Market Shocks* Mitchell Livy, California State University, Fullerton; Nicholas Irwin, University of Nevada - Las Vegas
- *The Net Benefit of Demolishing Dilapidated Housing: The Case of Detroit* Dusan Paredes, Universidad Católica del Norte; Mark Skidmore, Michigan State University; Camila Alvaay, Michigan State University

**Discussants:**

- Dusan Paredes, Universidad Católica del Norte
- Qiao Wang,
- Sicheng Wang, Rutgers, The State University of New Jersey

- Mitchell Livy, California State University, Fullerton

**94. Formal Paper Session: Environmental Issues IV --Friday Nov 15 / 1:30 PM-3:30 PM / Carnegie III**

**Chair:** Shihe Fu, Xiamen University

- *Coasian Compensation Scheme and Transboundary Water Quality Targeting: Evidence from an Experiment in China* Tie Shi, Xiamen University
- *Effects of Transboundary Pollution on Housing Prices in Korea: Focusing on Fine Particulate Transported from China* Kyung-Min Nam, The University of Hong Kong; Yifu Ou, University of Hong Kong; Siqi Zheng, Massachusetts Institute of Technology
- *Analysis of Temporal and Spatial Patterns of PM2.5 in Prefecture-Level Cities of China from 1998 to 2016.* Bao-li Zheng, East China Normal University
- *How Extensive are Air Pollution Spillovers? An Application to China's Manufacturing Productivity* Shihe Fu, Xiamen University; V. Brian Viard, Cheung Kong Graduate School of Business; Peng Zhang, The Hong Kong Polytechnic University

**Discussants:**

- Shihe Fu, Xiamen University
- Tie Shi, Xiamen University
- Kyung-Min Nam, The University of Hong Kong
- Bao-li Zheng, East China Normal University

**95. Formal Paper Session: Natural Resources --Friday Nov 15 / 1:30 PM-3:30 PM / Frick**

**Chair:** Kathleen Bell, University of Maine

- *The Dark Side of the Shale Boom-- County Level Analysis: Matching Methods for Causal Inference* Shishir Shakya, West Virginia University; Luyi Han, Oklahoma State University
- *Do Exploitations of Marcellus and Utica Shale Formations Improve Regional Economy in West Virginia and Ohio? A Synthetic Control Analysis* Kuan-Ming Huang, West Virginia University; Xiaoli Etienne, West Virginia University
- *The Carbon Losses due to Landscape Change from Unconventional Shale Gas Development in the Marcellus and Utica Formations* Xiao Dong,; H. Allen Klaiber, Ohio State University; Sathya Gopalakrishnan, Ohio State University; Douglas Wrenn, Pennsylvania State University
- *Rural Forested Landscapes, Economic Change, and Rural Development* Kathleen Bell, University of Maine; Mindy Crandall, University of Maine; Darla Munroe, Ohio State University; Anita Morzillo, University of Connecticut; Chris Colocousis, James Madison University

**Discussants:**

- Kathleen Bell, University of Maine
- Shishir Shakya, West Virginia University

- Kuan-Ming Huang, West Virginia University
- Xiao Dong,

**96. Formal Paper Session: Regional Economic Effects of Disasters 1 --Friday Nov 15 / 1:30 PM-3:30 PM / Phipps**

**Organizers:** Yasuhide Okuyama, University of Kitakyushu; Adam Rose, USC

**Chair:** Yasuhide Okuyama, University of Kitakyushu

- *Community Resilience in Climate Related Disasters: What Matters and What Does Not* Sultana Fouzia, Oregon State University; Yong Chen, Oregon State University; Jianhong Mu, University of Texas - Austin
- *Evaluating the Role of Resilience in Reducing Economic Losses from Disasters: A Multi-Regional Analysis of a Seaport Disruption* Dan Wei, University of Southern California; Zhenhua Chen, Ohio State University; Adam Rose, USC
- *Learning From the Past. Forecasting Community Disaster Resilience after the 2016 Central Italy Earthquake using Supervised Machine Learning.* Marco Modica, Gran Sasso Science Institute; Federico Fantechi, Gran Sasso Science Institute; Giovanni Stilo, University of L'Aquila

**Discussants:**

- Adam Rose, USC
- Marco Modica, Gran Sasso Science Institute
- Yong Chen, Oregon State University

**97. Formal Paper Session: Migration --Friday Nov 15 / 1:30 PM-3:30 PM / Vandergrift**

**Chair:** Anja Rossen, Institute for Employment Research

- *Assessing Intergenerational Mobility for Mexican Immigrants in the United States* Katerine Ramirez, The Ohio State University
- *The Impact of International Migration and Employment Policies' Restrictions on the Development and Employment Situation of Industries of the United States* Zhuoqun Gao, Harbin Institute of Technology & Cornell; Jingwen Li, Cornell University; Tao Ma, Harbin Institute of Technology; R. Richard Geddes, Cornell University
- *Urban Spatial Structure in Barcelona (1902-2011): Immigration, Spatial Segregation, and New Centrality Governance* Miquel-Angel García-López, Universitat Autònoma de Barcelona; Rosella Nicolini, Universitat Autònoma de Barcelona; Jose Luis Roig Sabaté, Universitat Autònoma de Barcelona
- *Out Migration of Young Workers from Rural Areas and their Return - Event History Analyses* Anja Rossen, Institute for Employment Research; Jan Cornelius Peters, Thünen Institute; Moritz Meister, IAB Institute for Employment Research

**Discussants:**

- Anja Rossen, Institute for Employment Research
- Katerine Ramirez, The Ohio State University

- Zhuoqun Gao, Harbin Institute of Technology & Cornell
- Rosella Nicolini, Universitat Autònoma de Barcelona

**98. Formal Paper Session: Spatial Econometrics Association Session: Spatial Big Data (Pre-Registration Required) --Friday Nov 15 / 2:00 PM-3:30 PM / C**

**Chair:** Giuseppe Arbia, Università Cattolica del Sacro Cuore

- *On Spatial Lag Models Estimated Using Crowdsourcing, Web-Scraping or Other Unconventionally Collected Big Data* Giuseppe Arbia, Università Cattolica del Sacro Cuore; Vincenzo Nardelli, Catholic University
- *Spatial AR(p)-GARCH(k, l) Models for High-Dimensional Financial Time Series* Takaki Sato, Tohoku University; Yasumasa Matsuda, Tohoku University
- *Spatially Autoregressive Additive Modeling for Large Samples* Daisuke Murakami, Institute of Statistical Mathematics; Hajime Seya, Kobe University; Daniel Griffith, University Of Texas At Dallas

**Discussants:**

- Giuseppe Arbia, Università Cattolica del Sacro Cuore
- Takaki Sato, Tohoku University
- Daisuke Murakami, Institute of Statistical Mathematics

**99. Formal Paper Session: Spatial Econometrics Session: Spatial Demography (Pre-Registration Required) --Friday Nov 15 / 2:00 PM-3:30 PM / D**

**Chair:** Yukiko Abe, Hokkaido University

- *Spatial Clustering Patterns of Children in Single-Mother Households in Japan* Yukiko Abe, Hokkaido University; Mizuki Kawabata, Keio University; Yuki Shibatsuji, Graduate School of Keio University
- *Spatial Relationships between Single-Mother Households and Public Housing in the Tokyo Ward Area* Yuki Shibatsuji, Graduate School of Keio University; Mizuki Kawabata, Keio University
- *Fertility Trend, District, Divisional and Regional levels Spatial Modeling in Bangladesh* M. Mizanur Rahman Sarker, Hitotsubashi University; Nabila Hossain, Sher-e-Bangla Agricultural University; M. Rafikul Islam, Sher-e-Bangla Agricultural University

**Discussants:**

- Yukiko Abe, Hokkaido University
- Yuki Shibatsuji, Graduate School of Keio University
- M. Mizanur Rahman Sarker, Hitotsubashi University

**3:30 PM-4:00 PM**

**100. Coffee Break --Friday Nov 15 / 3:30 PM-4:00 PM / Conference Level Foyer**

## **4:00 PM-6:00 PM**

**101. : Formal Paper Session in Honor of Roger R. Stough --Friday Nov 15 / 4:00 PM-6:00 PM / A**

(followed by reception for session attendees)

**102. : Early Child Conditions and Development II --Friday Nov 15 / 4:00 PM-6:00 PM / Heinz**

**Organizer:** Flavia Chein, Federal University of Juiz de Fora - Brazil

**Chair:** Flavia Chein, Federal University of Juiz de Fora - Brazil

- *Childhood Socioeconomic Status and Adulthood Obesity and Health: The Role of Parental Permanent and Transitory Income* Yilan Xu, University of Illinois; Tansel Yilmazer, Ohio State University
- *Early Life Exposure to Malaria and Economic Development: Evidence from the Brazilian Eradication Campaign* Henrique Veras de Paiva Fonseca, Oberlin College
- *Early Childhood Stress: Movers, Stayers and Neighborhood Change* David Folch, Northern Arizona University; Christopher Fowler, Pennsylvania State University

### **Discussants:**

- Henrique Veras de Paiva Fonseca, Oberlin College
- David Folch, Northern Arizona University
- Yilan Xu, University of Illinois

**103. : Demographic Transitions: Regions, Cities and Neighbourhoods: Choice --Friday Nov 15 / 4:00 PM-6:00 PM / Phipps**

**Organizers:** Mark Brown, Statistics Canada; Abigail Cooke, SUNY - Buffalo; Rachel Franklin, Newcastle University; Bruce Newbold, McMaster University

**Chair:** Abigail Cooke, SUNY - Buffalo

- *Do Secondary Motives Shape Migration? The Interplay Between Labour markets, Residential Qualities and Family Ties.* Viktor Venhorst, University of Groningen; Brian Gillespie, University of Groningen
- *Social Connections and the Settlement Patterns of Immigrants* Daniel Crown, The Ohio State University; Mark D. Partridge, Ohio State University; Alessandra Faggian, Gran Sasso Science Institute
- *Internal Forced Displacement and Crime: Evidence from Colombia* Andres Sanchez, Universidad EAFIT; Catalina Gomez, EAFIT University; Hermilson Velasquez, EAFIT University; Juan Mejia, EAFIT University
- *A Migration Model of Loss-Aversion: The Role of Economic Prospect and Spatial Referencing* Ayoung Kim, Mississippi State University; Brigitte Waldorf, Purdue University; Seong Yun, Mississippi State University

**Discussants:**

- Ayoung Kim, Mississippi State University
- Viktor Venhorst, University of Groningen
- Daniel Crown, The Ohio State University
- Andres Sanchez, Universidad EAFIT

**104. Formal Paper Session: Location and Spatial Analysis III --Friday Nov 15 / 4:00 PM-6:00 PM / B**

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

**Chair:** Timothy Matisziw, University of Missouri

- *Measuring Centrality of Cultural Venues in Ethnic Communities* Susan Burtner, University of California, Santa Barbara; Alan Murray, University of California - Santa Barbara
- *An Efficient Solution Approach for Solving P-Median Problem using Spatial Autocorrelation* Hyun Kim, University of Tennessee; Daniel Griffith, University Of Texas At Dallas; Yongwan Chun, U. of Texas at Dallas
- *Efficient Regionalization for Spatially Explicit Neighborhood Delineation* Ran Wei, University of California, Riverside; Sergio Rey, University of California - Riverside
- *Acoustical Impacts in Coverage Modeling* Hiroyuki Goto, Hosei University; Alan Murray, University of California - Santa Barbara

**Discussants:**

- Ran Wei, University of California, Riverside
- Rick Church, University Of California At Santa Barbara
- Bryce Pludow, University of California, Santa Barbara
- Kamyong Kim, Kyungpook National University

**105. Formal Paper Session: Spatial Econometric Association Session: Housing Market Applications (Pre-Registration Required) --Friday Nov 15 / 4:00 PM-6:00 PM / C**

**Chair:** Natalia Bailey, Monash University

- *What Happens in Vegas Doesn't Always Stay in Vegas: The Dynamics of House Prices and Foreclosure Rates Across Space and Time* Hua Kiefer, Federal Deposit Insurance Corporation; Leonard Kiefer, Freddie Mac; Diana Wei, Office of the Comptroller of the Currency
- *Estimation and Inference for Spatial Models with Heterogeneous Coefficients: An Application to U.S. House Prices* Natalia Bailey, Monash University; Michele Aquaro, European Commission; Hashem Pesaran, University of Southern California
- *A Flexible Model for Spatial Volatility with an Application to Chicago Housing Market* Jiyoung Chae, University of Illinois - Urbana-Champaign
- *Determinants of Airbnb Prices Across European Cities: A Spatial Econometrics Approach* Kristof Gyodi, University of Warsaw; Lukasz Nawaro, University of Warsaw

**Discussants:**

- Hua Kiefer, Federal Deposit Insurance Corporation
- Natalia Bailey, Monash University
- Jiyoung Chae, University of Illinois - Urbana-Champaign
- Kristof Gyodi, University of Warsaw

**106. Formal Paper Session: REAL, 30 years : Spatial Structures and Spatial Externalities -- Friday Nov 15 | 4:00 PM-6:00 PM | Carnegie III**

**Organizer:** Sandy Dall'Erba, University of Illinois

**Chair:** Tomaz Dentinho, University of the Azores

- *The U.S. Interstate Trade Will Overcome the Negative Impact of Climate Change on Agricultural Profit* Sandy Dall'Erba, University of Illinois; Zhangliang Chen, University of Illinois - Urbana-Champaign
- *A Study on Environmental Violations for Brazilian Municipalities: A Limited Information Maximum Likelihood Approach to a Spatial Dynamic Panel Data* Andre Chagas, Sao Paulo State University; Julia Uhr, Ufpel; Daniel Uhr, Ufpel
- *Firm Demographics of the Retail Sector, a Spatial Perspective* Luc Anselin, University of Chicago; Irene Farah, University of California - Berkeley
- *Spatial Dependence Probit Models for Grouped-Data Origin-Destination Flows* Patricio Aroca, CEPR- Universidad Adolfo Ibanez; Luc Anselin, University of Chicago; Coro Chasco, Universidad Autonoma de Madrid

**Discussants:**

- Luc Anselin, University of Chicago
- Patricio Aroca, CEPR- Universidad Adolfo Ibanez
- Andre Chagas, Sao Paulo State University
- Paolo Postiglione, University of Chieti-Pescara

**107. Formal Paper Session: Spatial Econometrics Association Session: Methodological issue III, Hypothesis testing (Pre-Registration Required) --Friday Nov 15 | 4:00 PM-6:00 PM / D**

**Chair:** Anil Bera, University of Illinois - Urbana-Champaign

- *Nested and Non-nested Tests of Nonlinear Spatial Volatility Model with Distributional and Parametric Misspecifications* Anil Bera, University of Illinois - Urbana-Champaign; Yufan Leiluo, University of Illinois - Urbana-Champaign
- *The Role of Cross-Validation in Spatial Econometrics* Flavio Santi, University of Verona; Giuseppe Arbia, Universita Cattolica del Sacro Cuore; Maria Michela Dickson, University of Trento; Giuseppe Espa, University of Trento; Diego Giuliani, University of Trento
- *A Simple Test for Stability of a Spatial Model* Gianfranco Piras, CUA; Harry Kelejian, University of Maryland - College Park

**Discussants:**

- Anil Bera, University of Illinois - Urbana-Champaign

- Flavio Santi, University of Verona
- Gianfranco Piras, CUA

**108. Formal Paper Session: Traffic Congestion and Road Pricing --Friday Nov 15 / 4:00 PM-6:00 PM / Carnegie I**

**Chair:** Debarshi Indra, Anheuser-BuschInBev

- *Measuring Traffic Congestion using Data from E-Hailing Trips: an Application for São Paulo, Brazil* Renato Vieira, UIUC; Eduardo Haddad, University of Sao Paulo
- *Revisiting the Fundamental Law of Highway Congestion Using Quantile Regression* Debarshi Indra, Anheuser-BuschInBev; Abhradeep Maiti, IIM Kashipur
- *Traffic Congestion, Transportation Policies, and the Performance of First Responders* Daniel Brent, Pennsylvania State University; Louis-Phillipe Beland, Louisiana State University
- *When are the Vehicle-Miles-Traveled Tax and the Gasoline Tax Not Efficient?* Huibin Chang, Dongbei University of Finance and Economics; Alex Anas, SUNY - Buffalo

**Discussants:**

- Huibin Chang, Dongbei University of Finance and Economics
- Eduardo Haddad, University of Sao Paulo
- Debarshi Indra, University at Buffalo, The State University of New York
- Daniel Brent, Pennsylvania State University

**109. Formal Paper Session: Regional/Spatial Aspects of the Opioid Crisis II --Friday Nov 15 / 4:00 PM-6:00 PM / Carnegie II**

**Organizer:** Brian Cushing, West Virginia University

**Chair:** Robert McNab, Old Dominion University

- *West Virginia Death Certificate Analysis: Coal Country and the Opioid Crisis* Collin Hodges, West Virginia University; Heather Stephens, West Virginia University
- *Understanding Opioid Resiliency and Vulnerability in Rural and Micropolitan Communities* DAVID PETERS, Iowa State University
- *County Analysis of the Impact of Oil and Gas Booms and Busts on Opioid Overdose Deaths* Juan Tomas Sayago Gomez, Universidad Icesi; Brian Cushing, West Virginia University; Elham Erfanian, West Virginia University

**Discussants:**

- Devon Meadowcroft, Pennsylvania State University
- David McGranahan, ERS USDA
- Marynia Kolak, University of Chicago

**110. Formal Paper Session: Regional and Rural Development VI: Technology & Productivity Growth --Friday Nov 15 / 4:00 PM-6:00 PM / Frick**

**Organizers:** Sarah Low, University of Missouri; Stephan Weiler, Colorado State University

**Chairs:** Craig Carpenter, Texas A&M University; Peter Stenberg, USDA Economic Research Service

- *Industrial Structure and Robot Adoption in the US: A Regional Perspective* Jonathan Care, Colorado State University; Marco Guerzoni, University of Torino; Massimiliano Nuccio, University of Birmingham; Stephan Weiler, Colorado State University
- *Great Divide: Effects of Urban Productivity Growth in Non-Urban Regions* Jacob Moore, University of Oxford
- *Satellite and Wireless Broadband Service Complementarity and Substitutability for Wired Rural Internet Service* Peter Stenberg, USDA Economic Research Service

**Discussants:**

- Peter Stenberg, USDA Economic Research Service
- Jonathan Care, Colorado State University
- Jacob Moore, University of Oxford

**111. Formal Paper Session: Public Finance II --Friday Nov 15 / 4:00 PM-6:00 PM / Oliver**

**Chair:** Steven Craig, University of Houston

- *Charter School Proliferation and School District Fiscal Stress, A Chicken-Egg Problem* Bo Feng, Marshall University
- *Oil Royalties and the Provision of Public Education in Brazil* Jeff Chan, Wilfrid Laurier University; Ridwan Karim, Wilfrid Laurier University
- *Can Bureaucrats Manipulate Policy Outcomes?* Steven Craig, University of Houston; Edward Hoang, University of Colorado - Colorado Springs; Janet Kohlhase, University of Houston
- *Horizontal Interactions in Local Income Taxes* Johan Lundberg, Umea University, Sweden

**Discussants:**

- Johan Lundberg, Umea University, Sweden
- Bo Feng, Marshall University
- Jeff Chan, Wilfrid Laurier University
- Steven Craig, University of Houston

**112. Formal Paper Session: Tourism --Friday Nov 15 / 4:00 PM-6:00 PM / Vandergrift**

**Chair:** Christelle Khalaf, Ohio University

- *Scenic Area Tourism Vulnerability and Recovery Planning of Regional Spatial Development: A Case Study of Jiuzhaigou, Sichuan, Manlan China* Chi-Tung Hung, Ming Chuan University; Wen-Yen Lin, Ming Chuan University; Wei-Chieh Huang, Ming Chuan University

- *Local Economic Development Impacts of Agritourism* Claudia Schmidt, Pennsylvania State University; ZHENG TIAN, Pennsylvania State University; Stephan Goetz, Pennsylvania State University
- *Tourism and Growth: A Review and Meta-Analysis* Laura Vici, University of Bologna; Roberto Patuelli, University of Bologna; Elvira Fetahu, University of Elbasan
- *World Heritage Site Designation and Economic Development: A Synthetic Control Approach* Christelle Khalaf, Ohio University; G. Jason Jolley, Ohio University; Douglas Belleville, Ohio University

**Discussants:**

- Christelle Khalaf, Ohio University
- Chi-Tung Hung, Ming Chuan University
- Claudia Schmidt, Pennsylvania State University
- Laura Vici, University of Bologna

**Saturday, 16 November**

**7:30 AM-8:30 AM**

Coffee --Saturday Nov 16 / 7:30 AM-8:30 AM / Conference Level Foyer

**7:30 AM-10:00 AM**

**114. : Registration and Exhibits** --Saturday Nov 16 / 7:30 AM-10:00 AM / Conference Level Foyer

**8:00 AM-10:00 AM**

**115. Formal Paper Session: REAL, 30 years : Regional and Local Inequality** --Saturday Nov 16 / 8:00 AM-10:00 AM / A

**Organizer:** Sandy Dall'Erba, University of Illinois

**Chair:** Michael Lahr, Rutgers University

- *Income Inequality and Product Variety* Nora Schindler, WU Vienna; Dieter Pennerstorfer, University of Linz; Biliiana Yontcheva, University of Economics and Business Vienna; Christoph Weiss, Vienna University of Economics and Business
- *A Non-Compensatory Approach to Define a Deprivation Index for Italian municipalities* Alfredo Cartone, University of Chieti-Pescara; Domenica Panzera, University of Chieti-Pescara; Paolo Postiglione, University of Chieti-Pescara
- *Research on the Space-Time Impact of Regional Growth in China: A Multi-level Approach* Xiangwei Sun, Zhengzhou University
- *Role of Service Export in Enhancing Economic Resiliency of a Region: Growing Importance of Tourism Export for Regional Economy* Jaewon Lim, University of Nevada, Las Vegas (UNLV)

**Discussants:**

- Alfredo Cartone, University of Chieti-Pescara
- Xiangwei Sun, Zhengzhou University
- Jaewon Lim, University of Nevada, Las Vegas (UNLV)
- Nora Schindler, WU Vienna

**116. Formal Paper Session: Urban-Rural Interdependence --Saturday Nov 16 / 8:00 AM-10:00 AM / Carnegie III**

**Organizer:** Randall Jackson, West Virginia University

**Chair:** Randall Jackson, West Virginia University

- *A Pan-European Assessment of the Potential Benefits of Urban-Rural Interactions* Eveline van Leeuwen, Wageningen University; Daniel Arribas-Bel, University of Liverpool
- *A Study on The "Two-Way" Flow of Urban and Rural Talents Under The Background of Chinese Rural Revitalization* Yaning DONG, Peking University
- *SNAP Stimulus Impacts on the Rural and Urban Economies during the Aftermath of the Great Recession: The Automatic Stabilizer Response versus a Cash Transfer Program* Stephen J Vogel, USDA/Economic Research Service
- *Do Urban-Rural Interactions Matter for Economic Vitality in U.S. regions?* Heather Stephens, West Virginia University

**Discussants:**

- Heather Stephens, West Virginia University
- Stephen J Vogel, USDA/Economic Research Service
- Yaning DONG, Peking University
- Eveline van Leeuwen, Wageningen University

**117. Formal Paper Session: Demographic Transitions: Regions, Cities and Neighbourhoods: Neighbourhoods --Saturday Nov 16 / 8:00 AM-10:00 AM / Phipps**

**Organizers:** Mark Brown, Statistics Canada; Abigail Cooke, SUNY - Buffalo; Rachel Franklin, Newcastle University; Bruce Newbold, McMaster University

**Chair:** Bruce Newbold, McMaster University

- *Neighbourhood, Dwelling and Apartment Building Income Mixing: Review of Measures and Experimental Estimates Across Census Metropolitan Areas* Mark Brown, Statistics Canada; River Yang, Statistics Canada
- *Employment Dynamics and Long-Term Neighborhood Change: Buffalo, NY 1940 to 2017* Dylan Connor, Arizona State University; Abigail Cooke, SUNY - Buffalo; Sijiao Xie, Arizona State University
- *A Method for Measuring Neighborhood Diversity and Poverty around HOPE VI Public Housing Projects in Cleveland, Ohio* Philemon Abayateye, University of Toledo

**Discussants:**

- Philemon Abayateye, University of Toledo
- Paul Jung, University of North Carolina - Charlotte

- Cletus Coughlin, Federal Reserve Bank of St. Louis

**118. Formal Paper Session: Formal Paper Sessions on GeoComputation --Saturday Nov 16 / 8:00 AM-10:00 AM / B**

**Organizers:** Ran Tao, University of South Florida; Jean-Claude Thill, University of North Carolina - Charlotte; Zhaoya Gong, University of Birmingham; Suzana Dragicevic, Simon Fraser University

**Chairs:** Jean-Claude Thill, University of North Carolina - Charlotte; Ran Tao, University of South Florida

- *A Scalable Method for Local Marginal Analysis in Hierarchical Gaussian Process Regression Models* Jacob Dearmon, Oklahoma City University; Tony E. Smith, University of Pennsylvania
- *A Bayesian Approach to Eigenvector Spatial Filtering using the Regularized Horseshoe Prior* Connor Donegan, University of Texas at Dallas
- *Composite Measures of Gentrification: A Case Study in Toronto, Canada* Jason Hawkins, University of Toronto; Usman Ahmed, University of Toronto; Khandker Nurul Habib, University of Toronto; Matthew Roorda, University of Toronto
- *Measuring Spatial Association for Bivariate Flow Data* Ran Tao, University of South Florida; Jean-Claude Thill, University of North Carolina - Charlotte

**Discussants:**

- Jacob Dearmon, Oklahoma City University
- Connor Donegan, University of Texas at Dallas
- Jason Hawkins, University of Toronto
- Jean-Claude Thill, University of North Carolina - Charlotte

**119. Formal Paper Session: Economic Development I --Saturday Nov 16 / 8:00 AM-10:00 AM / C**

**Chair:** Shaoming Cheng, Florida International University

- *Regional Decline and Recovery: The Great Recession and Expansion* John Connaughton, UNC - Charlotte; Richard Cebula, Jacksonville University
- *Which Came First Reuse or Unemployment? A Dynamic Correlative Analysis* Andrew Crawley, University of Maine
- *Political Borders and Economic Efficiency: Evidence from China* Wei TANG, Shanghai University of Finance and Economics
- *Incentivized for Leveling the Playing Field: Do State Economic Incentives Compensate for High Taxes?* Shaoming Cheng, Florida International University; Hai Guo, Florida International University; Cathy Liu, Georgia State University

**Discussants:**

- Shaoming Cheng, Florida International University
- John Connaughton, UNC - Charlotte
- Andrew Crawley, University of Maine

- Wei TANG, Shanghai University of Finance and Economics

**120. Formal Paper Session: Regional Development in Mexico --Saturday Nov 16 / 8:00 AM-10:00 AM / Carnegie I**

**Organizer:** Patricio Aroca, CEPR- Universidad Adolfo Ibanez

**Chair:** Adrian De Leon Arias, Universidad de Guadalajara; Adrian De Leon Arias, Universidad de Guadalajara

- *Identification and Spatial Hierarchy of Industrial Conglomerates with Census data. A Suggested Procedure and Application to the Mexican Case of Study* Jesús Trevino, UANL
- *Mexican States' Business Cycles Co-Movement over the Period 2000-2014. A Panel Data Model Estimation* Patricio Aroca, CEPR- Universidad Adolfo Ibanez; Pablo Mejia-Reyes, Universidad Autónoma del Estado de México; Miguel Díaz-Carreño, Universidad Autónoma del Estado de México
- *Trade Liberalization and Regional Manufacturing Growth: Some Lessons from Mexico's Northern Border After 20 Years.* Adrian de Leon Arias, Universidad de Guadalajara

**Discussants:**

- Adrian de Leon Arias, Universidad de Guadalajara
- Jesús Trevino, UANL
- Patricio Aroca, CEPR- Universidad Adolfo Ibanez

**121. Formal Paper Session: Public Health II --Saturday Nov 16 / 8:00 AM-10:00 AM / Carnegie II**

**Chair:** Cristina Miller, Economic Research Service

- *How Industry-Specific Shocks Impact Within-Industry Suicide Rates* Michael Betz, The Ohio State University
- *The Impacts of the Affordable Care Act on the Labor Market* Tuyen Pham, West Virginia University
- *Estimating the Impact of Rural Hospital Closures on Local Mortality Rates* Cristina Miller, Economic Research Service
- *Heterogeneous Treatment Effects and Efficient Policy Learning: Evidence from the Oregon Health Experiment* Shishir Shakya, West Virginia University

**Discussants:**

- Shishir Shakya, West Virginia University
- Michael Betz, The Ohio State University
- Tuyen Pham, West Virginia University
- Cristina Miller, Economic Research Service

**122. Formal Paper Session: Regions and Resilience II --Saturday Nov 16 / 8:00 AM-10:00 AM / D**

**Chair:** Rushaine Goulbourne, The University of Alabama

- *Spatial Price Transmission of Retail Commodities in Japan -- The Great East Japan Earthquake* Sungtae Eun, Texas Tech University; Sang Su Ha, Kansas State University; David Suh, University of Connecticut
- *Natural Disasters and Industrial Policies: Fiscal Incentives as Reconstruction Stimuli in Colombia* Luis Galvis, Banco de la Republica - Colombia; Leonardo Bonilla, Banco de la Republica de Colombia; Sara Gomez, EAFIT University
- *The Labor Force Impact of Hurricanes in Small Island Developing States: Evidence from Puerto Rico.* Rushaine Goulbourne, The University of Alabama
- *Spatial Resilience and Voting: Evidence from US Presidential Elections* Giorgio Fazio, Newcastle University; Simone Grabner, Gran Sasso Science Institute; Marco Modica, Gran Sasso Science Institute

**Discussants:**

- Giorgio Fazio, Newcastle University
- Sungtae Eun, Texas Tech University
- Luis Galvis, Banco de la Republica - Colombia
- Rushaine Goulbourne, The University of Alabama

**123. Formal Paper Session: Regional and Rural Development VII: Economics of Broadband --Saturday Nov 16 / 8:00 AM-10:00 AM / Frick**

**Organizers:** Sarah Low, University of Missouri; Stephan Weiler, Colorado State University

**Chair:** Steven Deller, University of Wisconsin - Madison

- *Impact of State Regulations on Broadband Access in Rural America* Peter Han, USDA Economic Research Service; John Pender, USDA Economic Research Service; Zachary Keeler, West Virginia University
- *Impacts of USDA Broadband Programs on Property Values* John Pender, USDA Economic Research Service; Peter Han, USDA Economic Research Service; Zachary Keeler, West Virginia University
- *The Impacts of the USDA Broadband Loan and Grant Programs: Moving Towards Estimating a Rate of Return* Ivan Kandilov, North Carolina State University; Mitch Renkow, North Carolina State University
- *Broadband Access and Rural Entrepreneurship* Steven Deller, University of Wisconsin - Madison; Brian Whitacre, Oklahoma State University

**Discussants:**

- Steven Deller, University of Wisconsin - Madison
- Peter Han, USDA Economic Research Service
- John Pender, USDA Economic Research Service
- Ivan Kandilov, North Carolina State University

**124. Formal Paper Session: Social Justice --Saturday Nov 16 / 8:00 AM-10:00 AM / Heinz**

**Chair:** Jessica LaVoice, University of Pittsburgh

- *Planning Transport for Social Inclusion: an Accessibility-Activity Participation Approach* Jeff Allen, University of Toronto; Steven Farber, University of Toronto - Scarborough
- *Targeted Social Assistance Programs and Local Economies: The Case of Conditional Cash Transfers in Indonesia* Anna Falentina, Australian National University; Budy Resosudarmo, Australian National University
- *Racial Disparities in Debt Collection* Jessica LaVoice, University of Pittsburgh; Domonkos Vamosy, University of Pittsburgh
- *Did the End of Desegregation Drive Down Bus Spending?* Christopher Rick, Syracuse University

**Discussants:**

- Christopher Rick, Syracuse University
- Jeff Allen, University of Toronto
- Anna Falentina, Australian National University
- Jessica LaVoice, University of Pittsburgh

**126. Formal Paper Session: Gentrification and Residential Displacement --Saturday Nov 16 / 8:00 AM-10:00 AM / Parkview East**

**Chair:** Sydney Schreiner, The Ohio State University

- *Insights into Residential Displacement: A Micro-Data Analysis of Household Moves Near Los Angeles Metro Rail Stations* Gene Burinskiy, University of Southern California; Marlon Boarnet, University of Southern California; Raphael Bostic, Federal Reserve Bank of Atlanta; Seva Rodnyanansky, University of California - Berkeley; Allen Prohofsky, California Franchise Tax Board
- *Effects of Gentrification on Homeowners: Evidence from a Natural Experiment* Lei Ding, Federal Reserve Bank, Philadelphia; Jackelyn Hwang, Stanford University
- *Using Google Street View to Examine Green Gentrification: a Case Study in Chile* Melinda Sanchez, Iowa State University; Zachary Christman, Rowan University; Monica Haddad, Iowa State University; Hamil Pearsall, Temple University
- *Gentrification and Schools* Sydney Schreiner, The Ohio State University

**Discussants:**

- Sydney Schreiner, The Ohio State University
- Gene Burinskiy, University of Southern California
- Lei Ding, Federal Reserve Bank, Philadelphia
- Melinda Sanchez, Iowa State University

**127. Formal Paper Session: Spatial and causal analysis of transportation impacts --Saturday Nov 16 / 8:00 AM-10:00 AM / Vandergrift**

**Organizers:** Eleni Bardaka, North Carolina State University; V. Dimitra Pyrialakou, West Virginia University

**Chair:** Eleni Bardaka, North Carolina State University

- *Agglomeration, Employment and Transportation Improvement: The Impact of Road Levies on Labor Market Outcomes in Ohio's Municipalities based on Regression Discontinuity Design (RDD)* Seunghoon Oh, University of Cincinnati; David Brasington, University of Cincinnati
- *Travel Cost and Long-range Entrepreneurship Comovement* Rui Du, MIT; Jin Wang, Massachusetts Institute of Technology
- *The Relationship Between Transit Stations and Crime: A Spatial Pattern Analysis of Major US Transit Systems* Timothy Welch, Georgia Institute of Technology
- *Variation in Ride-Hailing Trips in Chengdu, China* Sicheng Wang, Rutgers, The State University of New Jersey; Robert Noland, Rutgers University

**Discussants:**

- Rui Du, MIT
- Seunghoon Oh, University of Cincinnati
- Timothy Welch, Georgia Institute of Technology
- Sicheng Wang, Rutgers, The State University of New Jersey

**10:00 AM-10:30 AM**

**128. : Coffee Break --Saturday Nov 16 / 10:00 AM-10:30 AM / Conference Level Foyer**

**10:30 AM-12:30 PM**

**129. : Location and Spatial Analysis IV --Saturday Nov 16 / 10:30 AM-12:30 PM / B**

**Organizer:** Alan Murray, University of California - Santa Barbara

**Chair:** Daoqin Tong, Arizona State University

- *Inverse Optimization In The Median Model* Joy Bhadury, Radford University; Jaehwan Jeong, Radford University
- *Spatial Relocation with Heterogeneous Talents: Based on Location-Quality* Yaning Dong, Peking University
- *Optimizing Locations of Primary School in the Rural Areas of China* Yulong Chen, Henan University
- *Demand-based Spatial Partitioning for Risk Mitigation* Harsha Gwalani, University of North Texas; Chetan Tiwari, University of North Texas; Armin Mikler, University of North Texas

**Discussants:**

- Domenica Panzera, University of Chieti-Pescara
- Yulong Chen, Henan University
- Yaning DONG, Peking University
- Joy Bhadury, Radford University

**130. : Demographic Transitions: Regions, Cities and Neighbourhoods: Outcomes --  
Saturday Nov 16 / 10:30 AM-12:30 PM / Carnegie III**

**Organizers:** Mark Brown, Statistics Canada; Abigail Cooke, SUNY - Buffalo; Rachel Franklin, Newcastle University; Bruce Newbold, McMaster University

**Chair:** Rachel Franklin, Newcastle University

- *After the Crash: Inter-Provincial Employee Movement in Canada* Bruce Newbold, McMaster University
- *Governments and Regional Growth: Does the Number Matter and, If So, How?* Cletus Coughlin, Federal Reserve Bank of St. Louis; Charles Gascon, Federal Reserve Bank of St. Louis; Kevin Kliesen, Federal Reserve Bank of St. Louis
- *Toxic Truth: Lead and Fertility* Edson Severnini, Carnegie Mellon University; Karen Clay, Carnegie Mellon University; Margarita Portnykh, Carnegie Mellon University
- *A New Optimal Matching Approach to Uncovering Neighborhood Sequencing Structure* WEI KANG, University of California Riverside; Sergio Rey, University of California - Riverside

**Discussants:**

- Abigail Cooke, SUNY - Buffalo
- Mark Brown, Statistics Canada
- Silje Haus-Reve, University of Stavanger
- Bruce Newbold, McMaster University

**131. : RSPB Editorial Board Meeting --Saturday Nov 16 / 10:30 AM-12:30 PM / Parkview West**

**132. Formal Paper Session: REAL, 30 years : IO and CGE Applications --Saturday Nov 16 / 10:30 AM-12:30 PM / A**

**Organizer:** Sandy Dall'Erba, University of Illinois

**Chair:** Eduardo Haddad, University of Sao Paulo

- *Exploring Changes in World Production and Trade Insights from the 2018 Update of OECD's ICIO/TIVA Database* Joaquim Guilhoto, Organisation for Economic Co-operation and Development (OECD); Geoffrey Hewings,; Nick Johnstone, International Energy Agency - IEA; Colin Webb, Organisation for Economic Co-operation and Development (OECD); Norihiko Yamano, Organisation for Economic Co-operation and Development (OECD)
- *Propagation of productivity shocks in the Chilean mining sector: a general equilibrium approach* Karina Simone Sass, University of São Paulo; Eduardo Haddad, University of Sao Paulo; Denise Li, University of São Paulo
- *Uneven Integration: The Case of Angola* Eduardo Haddad, University of Sao Paulo; Fernando Perobelli,; Inacio Araujo, University of Sao Paulo; Tomaz Dentinho, University of the Azores
- *Use WIOD Data to Estimate the Armington Import Elasticities for a Global Trade model* Jingwen Li, Cornell University

**Discussants:**

- Jingwen Li, Cornell University
- Eduardo Haddad, University of Sao Paulo
- Joaquim Guilhoto, OECD
- Karina Sass, University of São Paulo

**132. Formal Paper Session: Transportation Disadvantage and Access to Employment -- Saturday Nov 16 / 10:30 AM – 12:30 PM / Oliver**

**Organizers:** Eleni Bardaka, North Carolina State University; V. Dimitra Pyrialakou, West Virginia University

**Chair:** Eleni Bardaka, North Carolina State University

- *Suburbanization of poverty, transport disadvantage, and activity participation in Toronto* Jeff Allen, University of Toronto; Steven Farber, University of Toronto - Scarborough
- *Suburbanization of Poverty and Changes in Public Transportation Accessibility in the Triangle Region, North Carolina* Chang Liu, North Carolina State University; Eleni Bardaka, North Carolina State University
- *ACCESSIBILITY TO DIVERSITY OF JOBS IN INDIANA* Davis Chacon-Hurtado, University of Connecticut; Indraneel Kumar, Purdue University; Konstantina Gkritza, Purdue University; Jon Fricker, Purdue University
- *Social housing location and formal labor market accessibility: evidence from a Brazilian lottery* Tainã Pacheco;; Ciro Biderman, Getúlio Vargas Foundation

**Discussants:**

- Davis Chacon-Hurtado, University of Connecticut
- Jeff Allen, University of Toronto
- Chang Liu, North Carolina State University
- Tainã Pacheco,

**133. Formal Paper Session: International Trade II --Saturday Nov 16 / 10:30 AM-12:30 PM / C**

**Chair:** Damares Afonso, Federal University of Juiz de Fora

- *ASEAN or Plus Alpha? Effectiveness of Regional Trading Blocs* Jinhwan Oh, Ewha Woman's University
- *New Globalization: Effect of Regional Integration When Firms Outsource* Jingwen Li, Cornell University
- *The Regional Dimension of Nutritional Status and Trade Liberalization in Indonesian Provinces* Yuri Mansury, Illinois Institute of Technology
- *Regional Impacts of the Trade Integration in the G-77* Damares Afonso, Federal University of Juiz de Fora; Fernando Perobelli,; Suzana Bastos, Federal University of Juiz de Fora

**Discussants:**

- Damares Afonso, Federal University of Juiz de Fora
- Jinhwan Oh, Ewha Woman's University
- Jingwen Li, Cornell University
- Yuri Mansury, Illinois Institute of Technology

**134. Formal Paper Session: Urbanization --Saturday Nov 16 / 10:30 AM-12:30 PM / Carnegie I**

**Chair:** Jae Hong Kim, University of California - Irvine

- *Innovation in Shrinking cities* Alina Schoenberg, IMC University of Applied Sciences; Florian Bartholomae, Munich Business School
- *Research on the Internal Mechanism of Population Flow, Land Change and Urbanization ---Taking Zhengzhou City as an example* Xiaofang Zhou, Collaborative Innovation Center
- *A Time-Series Based Test Protocol for Empirical Assessment of Random Urban Growth: New Evidence from France* Martin Zumpé, GREThA, University of Bordeaux; Aurelie Lalanne, University of Bordeaux
- *Understanding the Dynamics of Urban Densification: How do Current and Planned Land Uses Interact and Evolve Over Time?* Jae Hong Kim, University of California - Irvine; Xiangyu Li, University of California - Irvine

**Discussants:**

- Jae Hong Kim, University of California - Irvine
- Alina Schoenberg, IMC University of Applied Sciences
- Xiaofang Zhou, Collaborative Innovation Center
- Martin Zumpé, GREThA, University of Bordeaux

**135. Formal Paper Session: Infrastructure and Regional Development --Saturday Nov 16 / 10:30 AM-12:30 PM / Carnegie II**

**Chair:** Amanda Ross, University of Alabama

- *Spatialization of the Port Regionalization in the Global Cargo Shipping Network* Paul Jung, University of North Carolina - Charlotte; Jean-Claude Thill, University of North Carolina - Charlotte
- *Connective Infrastructure and Its Effect on Poverty Reduction in Mexico* Ariadna Martinez Gonzalez, The Ohio State University; Mark D. Partridge, Ohio State University; Zoë Plakias, Ohio State University
- *The Impact of Commercial Air Service on Rural Communities: An Instrumental Variables Approach* Amanda Ross, University of Alabama; Christopher Yench, Weber State University
- *Travel Costs, Trade, and Market Segmentation: Evidence from China's High-Speed Railway* Dongxiao Niu, Tsinghua University; Weizeng Sun, Central University of Finance and Economics; Siqu Zheng, Massachusetts Institute of Technology

**Discussants:**

- Dongxiao Niu, Tsinghua University
- Paul Jung, University of North Carolina - Charlotte
- Ariadna Martinez Gonzalez, The Ohio State University
- Amanda Ross, University of Alabama

**136. Formal Paper Session: Real Estate --Saturday Nov 16 / 10:30 AM-12:30 PM / D**

**Chair:** Isabelle Nilsson, University of North Carolina at Charlotte

- *Evaluating the Impact of Online Influencers on Retail Property Rent - A Case Study in New York City* Xudong Sun, Massachusetts Institute of Technology; Andrea Chegut, Massachusetts Institute of Technology
- *Market Response to Border Security: Estimating the Impact of Tightening Border Security on Property Values in the US Southwest Border Region* Haoying Wang, New Mexico Tech
- *Local Agglomeration Economies and Real Estate Investment in US Cities* Michiel Daams, University of Groningen; Philip McCann, Sheffield University; Paolo Veneri, Oecd; Dennis Schoenmaker, Aew; Richard Barkham, Cbre
- *The Effect of Craft Breweries on Property Values: Varying Evidence from Across the United States* Isabelle Nilsson, University of North Carolina at Charlotte; Neil Reid, Univ. Of Toledo; Ralph McLaughlin, CoreLogic

**Discussants:**

- Isabelle Nilsson, University of North Carolina at Charlotte
- Xudong Sun, Massachusetts Institute of Technology
- Haoying Wang, New Mexico Tech
- Michiel Daams, University of Groningen

**137. Formal Paper Session: Regional and Rural Development VIII: Education, Workforce and Economic Growth --Saturday Nov 16 / 10:30 AM-12:30 PM / Frick**

**Organizers:** Sarah Low, University of Missouri; Stephan Weiler, Colorado State University

**Chair:** John Winters, Iowa State University

- *Encountering Weak Signals: Perceptions of Workplace Mobility Trends and Local Economic Development Practice* Sarah Soroui, Brandeis University
- *The Future of Work in Missouri: Urban-Rural Differences in Entrepreneurship and Self-Employment* Austin Sanders, University of Missouri; Sarah Low, University of Missouri; Mark White, University of Missouri
- *The Determinants of Charter School Formation and Growth* Michael Trouw, Colorado State University
- *Minimum Wages and Teen Employment across the Urban Hierarchy* John Winters, Iowa State University

**Discussants:**

- John Winters, Iowa State University

- Sarah Soroui, Brandeis University
- Austin Sanders, University of Missouri
- Michael Trouw, Colorado State University

**138. Formal Paper Session: Agriculture --Saturday Nov 16 / 10:30 AM-12:30 PM / Heinz**

**Chair:** Chellie Hogan, Oklahoma State University

- *Agricultural Land, Labourer Age and Leaving the Farm: Evidence from Rural China* Wei Xiao, SWUFE
- *Agricultural Transport Costs and Economic Geography: Evidence from a Spatial Interaction Model* PEDRO HERRERA CATALÁ• N, Universidad Autónoma de Madrid
- *Measuring the Impact of the 2018 Agricultural Improvement Act's Grassland Initiative for Oklahoma Producers* Chellie Hogan, Oklahoma State University; Dayton Lambert, Oklahoma State University; Amy Hagerman, Oklahoma State University
- *U.S. Farm Size Distribution and Local Economic Growth* ZHENG TIAN, Pennsylvania State University; Stephan Goetz, Pennsylvania State University; Claudia Schmidt, Pennsylvania State University

**Discussants:**

- ZHENG TIAN, Pennsylvania State University
- Wei Xiao, SWUFE
- PEDRO HERRERA CATALÁ• N, Universidad Autónoma de Madrid
- Chellie Hogan, Oklahoma State University

**139. Formal Paper Session: Regional Innovation --Saturday Nov 16 / 10:30 AM-12:30 PM / Oliver**

**Chair:** Kathrine Richardson, San Jose State University

- *City Size and Innovation: Evidence from China* Nanxin Deng, East China University of Science and Technology
- *The role of city networks in knowledge production: Evidence from Chinese city-level patenting activity* Yuxue Sheng, Guangxi University; James Lesage, Texas State University
- *The Cascadia Innovation Corridor: The Emergence of a Cross-Border High Tech Cluster in the Canada-US Border Region?* Kathrine Richardson, San Jose State University
- *Rural Manufacturing Export Performance: How Important Are Innovation, Inventive Occupations, and Intellectual Property Protection?* Timothy R Wojan, USDA ERS

**Discussants:**

- Timothy R Wojan, USDA ERS
- Nanxin Deng, East China University of Science and Technology
- Yuxue Sheng, Guangxi University
- Kathrine Richardson, San Jose State University

**140. Formal Paper Session: Regional/Spatial Aspects of the Opioid Crisis III --Saturday Nov 16 / 10:30 AM-12:30 PM / Phipps**

**Organizer:** Brian Cushing, West Virginia University

**Chair:** Elham Erfanian, West Virginia University

- *Opioids and Marijuana: Is there a criminal connection? Evidence from Virginia* Robert McNab, Old Dominion University; Barbara Blake, Old Dominion University
- *An Investigation of Relationships Between Neighborhood Opioid Activity and Students' Education Outcomes* Rodney Hughes, West Virginia University
- *Opioids and the Labor Market* Mark Schweitzer, Federal Reserve Bank of Cleveland; Dionissi Aliprantis, Federal Reserve Bank of Cleveland; Kyle Fee, Federal Reserve Bank of Cleveland
- *The Prescription Opioid Epidemic and Rural Decline* David McGranahan, ERS USDA; Tim Parker, USDA Economic Research Service

**Discussants:**

- Collin Hodges, West Virginia University
- Shishir Shakya, West Virginia University
- Evan Peet, RAND Corporation
- Isabel Musse, University of Illinois

**141. Formal Paper Session: Regional Economic Effects of Disasters 2 --Saturday Nov 16 / 10:30 AM-12:30 PM / Vandergrift**

**Organizers:** Yasuhide Okuyama, University of Kitakyushu; Adam Rose, USC

**Chair:** Yasuhide Okuyama, University of Kitakyushu

- *Addition Through Subtraction: Do Floodplain Property Buyouts Impact Nearby Housing Values?* Will Georgic, Kalamazoo College
- *'Managed Retreat' as an Adaptive Planning Response to Climate Change Displacement* Kieran Donaghy, Cornell University
- *The Right Period, the Right Models: Dealing with Short-Run Fluctuations of Economic Trends after a Disaster* Yasuhide Okuyama, University of Kitakyushu

**Discussants:**

- Kieran Donaghy, Cornell University
- Yasuhide Okuyama, University of Kitakyushu
- Will Georgic, Kalamazoo College

**12:30 PM-2:30 PM**

**142. : NARSC Awards Luncheon --Saturday Nov 16 / 12:30 PM-2:30 PM / Grand Ballroom**

**2:45 PM-4:45 PM**

**143. : Location Theory and Modeling --Saturday Nov 16 / 2:45 PM-4:45 PM / B**

**Chair:** Carlianne Patrick, Georgia State University

- *A Latent Auction Model of Firm Establishment Location Choice and Empirical Application to the Greater Toronto and Hamilton Area (GTHA)* Jason Hawkins, University of Toronto; Khandker Nurul Habib, University of Toronto
- *Identifying Agglomeration Spillovers: New Evidence from Large Plant Openings* Carlianne Patrick, Georgia State University; Mark D. Partridge, Ohio State University
- *Industrial Parks and The Environment - Evidence from China* Juan Palacios, Maastricht University; Siqi Zheng, Massachusetts Institute of Technology; Piet Eichholtz, Maastricht University; Weizeng Sun, Central University of Finance and Economics
- *Changing commute patterns: An analysis of St. Louis industrial areas from 2002-2015* Benjamin Fleschert, East West Gateway COG

**Discussants:**

- Benjamin Fleschert, East West Gateway COG
- Jason Hawkins, University of Toronto
- Carlianne Patrick, Georgia State University
- Juan Palacios, Maastricht University

**144. : Population and Demographic Dynamics --Saturday Nov 16 / 2:45 PM-4:45 PM / Carnegie I**

**Chair:** Mckenzie Carvalho, Oklahoma State University

- *Geospatial Modeling on the Right-Sizing of Cities under Population Decrease in South Korea* Jinwon Bae, Korea Land and Housing Institute; Hyemin Na, Korea Land and Housing Institute; Mihong Lee, Korea Land and Housing Institute
- *Urban Planning in Latin American Cities: The Case of Valledupar, Colombia* Jaime Bonet, Banco de la Republica; Diana Ricciulli, Banco de la Republica
- *Differences in Supplemental Nutrition Programs Participation among Oklahoma Counties* Mckenzie Carvalho, Oklahoma State University; Amy Hagerman, Oklahoma State University; Phil Kenkel, Oklahoma State University; Dave Shideler, Oklahoma State University
- *A Characterization of Spatial Voting in the US Presidential Elections* Giorgio Fazio, Newcastle University, University of Palermo; Marco Modica, Gran Sasso Science Institute

**Discussants:**

- Giorgio Fazio, Newcastle University
- Jinwon Bae, Korea Land and Housing Institute
- Jaime Bonet, Banco de la Republica
- Mckenzie Carvalho, Oklahoma State University

**145. : Public Finance III --Saturday Nov 16 / 2:45 PM-4:45 PM / D**

**Chair:** Anthony Howell, Arizona State University

- *Does Money Matter? Regional Transfers and Anti-establishment Voting* Giuseppe Albanese, Bank of Italy; Guglielmo Barone, Bank of Italy; Guido de Blasio, Bank of Italy
- *Impact of Targeted Cash Transfers from Dibao on Ethnic Entrepreneurship in Rural China* Anthony Howell, Arizona State University
- *Does Local Fiscal Policy Affect Migration? Evidence of a Fiscal Windfall in a Developing Country* Eduardo Silva, Sao Paulo State University; Andre Chagas, Sao Paulo State University

**Discussants:**

- Eduardo Silva, Sao Paulo State University
- Giuseppe Albanese, Bank of Italy
- Anthony Howell, Arizona State University

**146. : Big Data --Saturday Nov 16 / 2:45 PM-4:45 PM / Phipps**

**Chair:** Zhenhua Chen, Ohio State University

- *Real Time Positioning of Trucks: New Insights in Transport Geography? The Case of Belgium.* Thomas Isabelle, Universit  catholique de Louvain; Arnaud Adam, UCLouvain
- *Impact of Extreme Weather Event on Urban Human Flow: A Perspective from Location-Based Big Data* Zhenhua Chen, Ohio State University; Zhaoya Gong, University of Birmingham; Qiwei Ma, Tsinghua University; Changcheng Kan, Baidu Online Network Technology (Beijing) Co., Ltd
- *A Big-Data Analysis of Hu-line's Existence in the Ecology View and New Economic Geographical Understanding Based on Population Distribution* Zheng Wang, Institutes of Science and Development, Chinese Academy of Sciences
- *Understanding Spatiotemporal Urban Activity Patterns with Geo-Located Twitter Data: A GIS-Based Synthesis Approach* Junjun Yin, Pennsylvania State University; Guangqing Chi, Pennsylvania State University

**Discussants:**

- Junjun Yin, Pennsylvania State University
- Thomas Isabelle, Universit  catholique de Louvain
- Zhenhua Chen, Ohio State University
- Zheng Wang, Institutes of Science and Development, Chinese Academy of Sciences

**147. Formal Paper Session: REAL, 30 years : Entrepreneurship and Spatial Externalities -- Saturday Nov 16 / 2:45 PM-4:45 PM / A**

**Organizer:** Sandy Dall'Erba, University of Illinois

**Chair:** Nora Schindler, WU Vienn

- *Entrepreneur Age and New Venture Growth* Mikaela Backman, Jönköping International Business school; Charlie Karlsson, Jönköping International Business School
- *One Size Does Not Fit All: Evaluating the Relationship between Microenterprise Measurement and Policy Evaluation* Sergio Contreras, University of Illinois
- *FDI and Female Entrepreneurship: Fueling Local Development* Alicia Gómez-Tello, Universitat de Valencia; Rosella Nicolini, Universitat Autònoma de Barcelona
- *Pumping Life into the Heartland: Entrepreneurial Ecosystems and the Lagging Industrial Heartland* Merissa Piazza, Cleveland State University; Jinhee Yun, Cleveland State University

**Discussants:**

- Sergio Contreras, University of Illinois
- Alicia Gómez-Tello, Universitat de Valencia
- Merissa Piazza, Cleveland State University
- Mikaela Backman, Jönköping International Business school

**148. Formal Paper Session: Economic Development II --Saturday Nov 16 / 2:45 PM-4:45 PM / Carnegie II**

**Chair:** Marcello Graziano, Central Michigan University

- *Does Startup-NY Policy Promote Firm Formation?* Woosung Kim, Cornell University
- *Local governments' investments: the effects from an oil boom* Javier Perez, Banco de la Republica (The Central Bank of Colombia); Lucas Marin, Universidad de los Andes; Jaime Bonet, Banco de la Republica
- *Pathways for Resilience in Four Great Lakes Legacy Cities* Marcello Graziano, Central Michigan University; Evangelia Lema, Central Michigan University; Matthew Liesch, Central Michigan University
- *Effect of Business and Social Networks on Trade between Africa and Europe* Baraka Nafari, University of Johannesburg; Alain Pholo Bala, University of Johannesburg

**Discussants:**

- Baraka Nafari, University of Johannesburg
- Woosung Kim, Cornell University
- Javier Perez, Banco de la Republica (The Central Bank of Colombia)
- Marcello Graziano, Central Michigan University

**149. Formal Paper Session: Agglomeration Economies --Saturday Nov 16 / 2:45 PM-4:45 PM / Carnegie III**

**Chair:** Mario Polese, University of Quebec

- *Urban Agglomerations: How Far Does Their Effect Extend?* Li Fang, Florida State University; Joshua Drucker, University of Illinois - Chicago

- *Spatial distribution of agglomeration economies: Updating distance decay parameters* Ana Teresa Vargas Frutos, Imperial College London; Daniel J. Graham, Imperial College London; Laila Ait Bihi Ouali, Imperial College London
- *Why Nations Matter: Institution and the Contingent Nature of Agglomeration Economies.* Mario Polese, University of Quebec
- *Impact of the Great Recession on Retail Competition* Timothy Jaquet, Ohio State University

**Discussants:**

- Timothy Jaquet, Ohio State University
- Li Fang, Florida State University
- Ana Teresa Vargas Frutos, Imperial College London
- Mario Polese, University of Quebec

**150. Formal Paper Session: Regional and Rural Development IX: Location Decisions -- Saturday Nov 16 / 2:45 PM-4:45 PM / Frick**

**Organizers:** Sarah Low, University of Missouri; Stephan Weiler, Colorado State University

**Chair:** Eric Thompson, University of Nebraska - Lincoln

- *Know Before You Go: Examining How Information Generated by Economic Dynamism Influences County Level In-Migration Decisions* Jonathan Care, Colorado State University
- *Supply Thresholds: A New Conception for Business Locational Choice Research* Anders Van Sandt, Texas A&M University; Craig Carpenter, Texas A&M University; Rebekka Dudensing, Texas A&M University; Scott Loveridge, Michigan State University
- *The Relationship Between Innovative Business Practices and Geographic Clustering for a Large Sample of US Agricultural Commodities* Paul D Gottlieb, Rutgers University; Stephan Goetz, Pennsylvania State University; Neil Reid, Univ. Of Toledo; Andy Hira, Simon Fraser University; Elizabeth Dobis, Pennsylvania State University; ZHENG TIAN, Pennsylvania State University
- *The Nature of Localization Economies in the High Skill Producer Services Industry* Eric Thompson, University of Nebraska - Lincoln

**Discussants:**

- Anders Van Sandt, Texas A&M University
- Paul D Gottlieb, Rutgers University
- Eric Thompson, University of Nebraska - Lincoln
- Stephan Weiler, Colorado State University

**151. Formal Paper Session: Social and Economic Impacts of Public Transportation -- Saturday Nov 16 / 2:45 PM-4:45 PM / Heinz**

**Organizers:** Eleni Bardaka, North Carolina State University; V. Dimitra Pyrialakou, West Virginia University

**Chair:** Eleni Bardaka, North Carolina State University

- *The Impact of Public Transport on Location Decisions and Economic Activities: the Case of the Montreal Metro.* Marie-Pier Champagne, Université Laval; Jean Dubé, Laval University; Philippe Barla, Laval University
- *How Does Directional Heterogeneity Affect Prices of Single-Family Residences Near LRT Stations?* Yue Ke, Purdue University; Konstantina Gkritza, Purdue University
- *Social Change and Transportation in Seattle, WA: An Application of Geographically-Weighted Principal Components Analysis* Jonah White, Michigan State University; Kevin Credit, University of Chicago

**Discussants:**

- Yue Ke, Purdue University
- Jonah White, Michigan State University
- Marie-Pier Champagne, Université Laval

**152. Formal Paper Session: Innovations in Spatial Statistics and Econometrics --Saturday Nov 16 / 2:45 PM -4:45 PM / Oliver**

**Chair:** Oleg Smirnov, The University of Toledo

- *A Multilevel Eigenvector Spatial Filtering Model of House Prices: an Application to the House Sales in Fairfax County, Virginia* Lan Hu, University of Texas at Dallas; Yongwan Chun, U. of Texas at Dallas; Daniel Griffith, University Of Texas At Dallas
- *Econometric Analysis of the Disutility from Railway Overcrowding in Tokyo* Ryosuke Matsumoto, Railway Technical Research Institute; Takuro Morioka, National Graduate Institute for Policy Studies
- *Towards a Bayesian Spatial Autoregressive Partial Linear Model* Luc Bauwens, Université catholique de Louvain; Dominique Peeters, Université catholique de Louvain; Alain Pholo Bala, University of Johannesburg
- *Closed-Form Consistent Pseudo-Maximum Likelihood Estimator for Models with Spatial Dependence* Oleg Smirnov, The University of Toledo

**Discussants:**

- Oleg Smirnov, The University of Toledo
- Lan Hu, University of Texas at Dallas
- Ryosuke Matsumoto, Railway Technical Research Institute
- Luc Bauwens, Université catholique de Louvain

**153. Formal Paper Session: Foreign Aid and Investment --Saturday Nov 16 / 2:45 PM-4:45 PM / Vandergrift**

**Chair:** Jinhwan Oh, Ewha Woman's University

- *Analyzing Location Determinants of Greenfield Foreign Investment in Mexico: An Eigenvector Spatial Filtering Approach* David Saucedo De La Fuente, The University of Texas at Dallas; Paulo Cavallo, University of Texas - Dallas

- *Closing the Gap Between the IMF and Human Trafficking* Adrienne Hua, University of North Carolina at Charlotte; Jean-Claude Thill, University of North Carolina - Charlotte
- *FDI and Labor Market Dynamics in a Developing Country: Evidence from Indonesian Plant-Level Data* Toshiyuki Matsuura, Keio University; Hisamitsu Saito, Hokkaido University
- *A Gravity Approach of Foreign Aid Disbursement: The Case of South Korea, with Reference to Education Sector* Jinhwan Oh, Ewha Womans University

**Discussants:**

- Jinhwan Oh, Ewha Womans University
- David Saucedo De La Fuente, The University of Texas at Dallas
- Adrienne Hua, University of North Carolina at Charlotte
- Toshiyuki Matsuura, Keio University