NARSC 2021

Preliminary Program
Monday, November 8, 2021
Virtual Day

TIME ZONE: CENTRAL TIME
Zoom links will be provided in the final program.

1. Natural Disasters and Resilience (Virtual)
Monday | 10:00 am-12:00 pm | Maroon's Peak

Chair: Sultana Fouzia, Oregon State University

- Economic Analysis of Resilience to Natural Hazards in Industrial Sectors......Huan LIU, Kyoto University; Hirokazu Tatano, Kyoto University
- Urbanization and Weak Linkages of Social Capital for Natural Disaster Resilience......Kiyomi Kawamoto, Toyo University; Eric Yamashita, University of Hawaii - Manoa
- Equilibrium analysis of waiting-lines for fuels in the aftermath of disaster......JUNYA FUKUMOTO, Tohoku University
- Spatial equilibrium analysis of the hurricane impact on the coastal counties......Sultana Fouzia, Oregon State University; Yong Chen, Oregon State University

Discussants:
- Kiyomi Kawamoto, Toyo University;
- JUNYA FUKUMOTO, Tohoku University;
- Sultana Fouzia, Oregon State University;
- Huan LIU, Kyoto University;

2. Regional Economic Effects of Disasters 1 (Virtual)
Monday | 10:00 am-12:00 pm | Mt Oxford

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

- Flood insurance take-up after Hurricane Harvey: The information spillover effect......Yilan Xu, University of Illinois - Urbana-Champaign
- COVID-19 impacts on historically underrepresented group operated businesses outweigh the concurrent impacts from natural hazards and the pandemic......Jennifer Helgeson,
National Institute of Standards and Technology; Payam Aminpour, National Institute of Standards and Technology
- **Empirical Estimation of Economic Resilience to Infrastructure Disruptions.**......Charles Morin, Ohio State University; Noah Dormady, Ohio State University; Adam Rose, University of Southern California
- **The Effect of Flood Insurance on Property Values after a Flood.**......Sebastien Box-Couillard, University of Illinois - Urbana-Champaign

**Discussants:**
- Jennifer Helgeson, National Institute of Standards and Technology;
- Adam Rose, University of Southern California;
- Sebastien Box-Couillard, University of Illinois - Urbana-Champaign;
- Yilan Xu, University of Illinois - Urbana-Champaign;

3. Environment, Public Health, & Bio-economy (Virtual)
**Monday | 10:00 am-12:00 pm | Mt Princeton**

**Chairs:** Michael Cary, West Virginia University; Andre Avelino, National Renewable Energy Laboratory;
- **Green Infrastructure and Energy Justice in Health Adaptation: Leveraging Climate Policy Innovation and Vulnerability-Readiness Nexus.**......Hyun Kim, Chungnam National University
- **Ambient air pollution and physical productivity: Evidence from ultramarathons.**......Michael Cary, West Virginia University
- **BIOCAST: A Non-Linear Demo-Economic Forecasting Model for the U.S. Bioeconomy.**......Andre Avelino, National Renewable Energy Laboratory; Patrick Lamers, National Renewable Energy Laboratory; Yimin Zhang, National Renewable Energy Laboratory; Greg Avery, National Renewable Energy Laboratory; Mengming Li, University of Florida

**Discussants:**
- Michael Cary, West Virginia University;
- Andre Avelino, National Renewable Energy Laboratory;
- Hyun Kim, Chungnam National University;

4. The New Economy in Regional Economies (Virtual)
**Monday | 10:00 am-12:00 pm | Torrey’s Peak**

**Chair:** Santiago Pinto, Federal Reserve Bank of Richmond
• *The knowns and unknowns of accepting cryptocurrency as legitimate currency: Insights from an agent-based simulation*......Haoying Wang, New Mexico Tech; Riana Foley, New Mexico Tech
• *The "Resource Curse" in the Digital Economy: an Econometric Assessment*......Ekaterina Kadochnikova, Kazan Federal University; Nailya Bagautdinova, Kazan Federal University
• *The Degree of Sharing in Peer-to-peer Accommodations: A Case Study of Airbnb in Thailand*......Nij Tontisirin, Thammasat University; Sutee Anantsuksomsri, Chulalongkorn University; Areen Phuntarakit, Chulalongkorn University; Jean-Claude Thill, University of North Carolina - Charlotte
• *Heterogeneous Districts, Interests, and Trade Policy*......Santiago Pinto, Federal Reserve Bank of Richmond; Pablo Pinto, University of Houston; Kishore Gawande, University of Texas - Austin

**Discussants:**

• Ekaterina Kadochnikova, Kazan Federal University;
• Nij Tontisirin, Thammasat University;
• Santiago Pinto, Federal Reserve Bank of Richmond;
• Haoying Wang, New Mexico Tech;

**5. Location and Spatial Analysis III (Virtual)**
**Monday | 10:00 am-12:00 pm | Mt Columbia**

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

• *Reducing Racial Segregation of Public Schools*......Ran Wei, University of California - Riverside
• *Assessing trauma center accessibility for the Improvement of healthcare equity using anti-covering approach*......Heewon Chea, University of Tennessee; Hyun Kim, University of Tennessee; Yongwan Chun, University of Texas - Dallas
• *Addressing multiple resource possibilities in the Weber model*......Alan Murray, University of California - Santa Barbara; Richard Church, University of California - Santa Barbara; Jiwon Baik, University of California - Santa Barbara
• *Incorporating Census Data Uncertainty in Location Modeling: The P-Median and Maximum Covering Cases*......Daoqin Tong, Arizona State University; Mark Daskin, University of Michigan; Ruiwei Jiang, University of Michigan; Sadie Cox, University of Michigan

**Discussants:**

• Micajah McGarity, Johns Hopkins University;
• Jiwon Baik, University of California - Santa Barbara;
6. NARSC-NECTAR organized session: Workforce Impact of Autonomous Technologies (Virtual)
Monday | 10:00 am-12:00 pm | Mt Wilson

Organizers: Sicheng Wang, Michigan State University; Mack Elizabeth, Bank of Italy; Chair: Sichen Wang, Michigan State University

- **Human Capital Externalities in the Geography of Occupations.** Narae Lee, George Mason University
- **Occupational Transitions for Older Workers in an Era of Technological Change.** Sicheng Wang, Michigan State University; Mack Elizabeth, Bank of Italy; Shelia Cotten, Clemson University; Chu-Hsiang Chang, Michigan State University; Jenna Van Fossen, Michigan State University; Shubham Agrawal, Clemson University; Nathan Baker, Michigan State University
- **A Spatial Downscaling Approach for Employment Data.** Nidhi Kalani, Michigan State University; Mack Elizabeth, Bank of Italy
- **Acceptance of Autonomous Vehicles in Last-mile Logistics Operations.** Valeska Katharina Engesser, Vrije Universiteit Brussel

Discussants:
- Mack Elizabeth, Bank of Italy;
- Nidhi Kalani, Michigan State University;
- Valeska Katharina Engesser, Vrije Universiteit Brussel;
- Narae Lee, George Mason University;

7. Topics in the Labor Market (Virtual)
Monday | 12:00 pm-2:00 pm | Maroon's Peak

Chair: Catherine Isley, University of Missouri - Columbia

- **The Long Run Effects of Military Service.** Craig Carpenter, Texas A&M University; John Anders, Trinity University
- **The geography of employment polarisation, skills mismatch and labor productivity in the Netherlands.** Nikolaos Terzidis, University of Groningen; Raquel Ortega-Argiles, University of Birmingham
- **Determinants of Labor Shortages in Missouri’s Food Manufacturing Industry.** Catherine Isley, University of Missouri - Columbia; Sarah Low, University of Missouri - Columbia
Artificial Intelligence in the Hiring Process and Organizational Trust: The role of Ethical Perceptions...Serge da Motta Veiga, EDHEC Business School; Brent Clark, University of Nebraska - Omaha

Discussants:

- Nikolaos Terzidis, University of Groningen;
- Sarah Low, University of Missouri - Columbia;
- Serge da Motta Veiga, EDHEC Business School;
- Craig Carpenter, Texas A&M University;

8. Location and Spatial Analysis (Virtual)
Monday | 12:00 pm-2:00 pm | Mt Columbia

Chair: Ran Tao, University of South Florida

- Optimizing Geographic Access to Fertility Clinics...Micajah McGarity, Johns Hopkins University
- RELATIONSHIP BETWEEN LABOR PRODUCTIVITY AND WAGES: AN ANALYSIS OF SPATIAL PROXIMITY AT THE STATE LEVEL IN THE MANUFACTURING INDUSTRY IN MEXICO, 2004, 2009, 2014 AND 2019...Enrique González Mata, Economic Commission for Latin America and the Caribbean; Jesús López Cabrera, Tec de Monterrey; René Cabral Torres, Tec de Monterrey
- A New Urban Change Detection Method based on the Local G and LOSH Statistics...yuzhou chen, University of South Florida; Ran Tao, University of South Florida
- Modifying Local Indicators of Spatial Association (LISA) to Analyze Longitudinal Data...Ran Tao, University of South Florida; yuzhou chen, University of South Florida

Discussants:

- Ran Tao, University of South Florida;
- Enrique González Mata, Economic Commission for Latin America and the Caribbean;
- yuzhou chen, University of South Florida;
- Micajah McGarity, Johns Hopkins University;

9. Papers in Public Finance (Virtual)
Monday | 12:00 pm-2:00 pm | Mt Wilson

Chair: Carlos Mesa-Guerra, Cornell University

- Public spending and economies of scale in partial fiscal decentralized governments: The case of Chile...Alicia Chávez, Universidad Católica del Norte; Dusan Paredes, Universidad Católica del Norte
• The impact of R&D subsidies and tax incentives on firm innovation: complements or substitutes? --- Firm-level evidence from China......Jieping Chen, Tongji University
• Ricardian Land Rent, Tax Incidence, and Pasture/Cropland Value......Katie Welch, Oklahoma State University; Dayton Lambert, Oklahoma State University; Notie Lansford, Oklahoma State University
• The Fiscal Impact of Immigration: Labor Displacement, Wages and Community Networks......Carlos Mesa-Guerra, Cornell University; Andres Castano Zuluaga, Cornell University

Discussants:
- Jieping Chen, Tongji University;
- Katie Welch, Oklahoma State University;
- Carlos Mesa-Guerra, Cornell University;
- Alicia Chávez, Universidad Católica del Norte;

10. Issues in Regional Economies (Virtual)
Monday | 12:00 pm-2:00 pm | Torrey’s Peak

Chair: Marcos Valdivia, National University of Mexico

- Better together: Untapped potentials in Central Europe......Andrea Caragliu, Politecnico di Milano
- Capital Shocks, Real Estate Risks and the Effects of the Global Financial Crisis in European Regions and Cities......Michiel Daams, University of Groningen; Philip McCann, University of Sheffield; Paolo Veneri, OECD; Richard Barkham, CBRE Global Investors
- The Role of Industrial Chain in the Over Construction in China’s High-Speed Rails......Meng Yu, Ohio State University; Zhenhua Chen, Ohio State University
- Contribution and regional disparities of intangible capital in Mexico......Marcos Valdivia, National University of Mexico; Rafael Borrayo, National University of Mexico

Discussants:
- Michiel Daams, University of Groningen;
- Meng Yu, Ohio State University;
- Marcos Valdivia, National University of Mexico;
- Andrea Caragliu, Politecnico di Milano;

11. Regional Economic Effects of Disasters 2 (Virtual)
Monday | 12:00 pm-2:00 pm | Mt Oxford

Organizers: Yasuhide Okuyama, University of Kitakyushu; Adam Rose, University of Southern California;
Chair: Yasuhide Okuyama, University of Kitakyushu
• Assessing Tourism Damage and Recovery after a Major Earthquake in Japan. Hiroyuki SHIBUSAWA, Toyohashi University of Technology; Mingji CUI, Toyohashi University of Technology; Kotaro OKUDAIRA, Toyohashi University of Technology

• A Probabilistic Integration of Seismic Risk Models and Interregional CGE Modeling to Estimate the Economic Consequences of Earthquakes. Jose Antonio Leon Torres, National Autonomous University of Mexico; Mario Ordaz, National Autonomous University of Mexico; Eduardo Haddad, University of São Paulo; Araújo Inácio, University of São Paulo

• Economic Structural Changes under a Disaster. Yasuhide Okuyama, University of Kitakyushu

• Remittance Diversity and Economic Vulnerability to Remittance Shocks. Mack Elizabeth, Bank of Italy; Geoffrey Henebry, Michigan State University

Discussants:

• Jose Antonio Leon Torres, National Autonomous University of Mexico;
• Yasuhide Okuyama, University of Kitakyushu;
• Hiroyuki SHIBUSAWA, Toyohashi University of Technology;

12. In Honor Kieran Donaghy
Monday | 12:00 pm-2:00 pm | Mt Princeton

Organizer: John Carruthers, Cornell University
Chair: Yuri Mansury, Illinois Institute of Technology

• Spatial Equity in Secondary Education: Evidence from Point Pattern Analysis in Two Asian Megacities. Zhuojun Wang, Cornell University; John Carruthers, Cornell University

• Revisiting the value of accessibility: Do destinations and mode of travel matter? Gerrit Knaap, University of Maryland - College Park; Qiong Peng, University of Washington; Richard Kuzmyak, University of Maryland - College Park; Nicholas Finio, University of Maryland - College Park

• Bottom-Up Land Use Modeling in an Integrated Assessment Model of US Great Lakes Ecosystem Services. Brian Cultice, Ohio State University; Mackenzie Jones, Ohio State University; Elena Irwin, Ohio State University

• The convergence of trade, growth, and conflict in a spatial structural equation model. Yuri Mansury, Illinois Institute of Technology; Woosung Kim, Korea University; Jingwen Li, Cornell University

Discussants:

• Gerrit Knaap, University of Maryland - College Park;
• Brian Cultice, Ohio State University;
• Yuri Mansury, Illinois Institute of Technology;
• Zhuojun Wang, Cornell University;
13. Transportation 1 (Virtual)
Monday | 2:00 pm-4:00 pm | Maroon’s Peak

Chair: Julius Berger, ifo Institute

- *The determinants of telecommuting in the United States and how the COVID-19 pandemic changed them.* .....Deborah Salon, Arizona State University; Matthew Conway, University of North Carolina - Chapel Hill; Laura Mirtich, Arizona State University
- *Do more opportunities lead to higher income: the effects of transit access on household income.* .....Yun Li, Ohio State University
- *CAFE Standards and Public Transport.* .....Julius Berger, ifo Institute; Waldemar Marz, ifo Institute

Discussants:

- Yun Li, Ohio State University;
- Julius Berger, ifo Institute;
- Deborah Salon, Arizona State University;

14. Housing Market I (Virtual)
Monday | 2:00 pm-4:00 pm | Mt Columbia

Chair: Ethan Baron, University of Toronto

- *The impacts of 19-o riots on demand for rentals and insecurity sentiments on Santiago city.* .....ariel arcos, Catholic University of the North; Dusan Paredes, Universidad Católica del Norte; Bernardo Lara, University of Talca
- *Modelling Housing Supply: An Autoregressive Distributed Lag Model of Housing Starts in the Greater Toronto and Hamilton Area.* .....Billy Zhang, University of Toronto; Eric Miller, University of Toronto
- *A time series analysis of foreclosures rates in Spain.* .....Rafael González-Val, Universidad de Zaragoza; Miriam Marcén, Universidad de Zaragoza
- *Modelling Average Dwelling Value of Toronto Dissemination Areas.* .....Ethan Baron, University of Toronto; Eric Miller, University of Toronto

Discussants:

- Billy Zhang, University of Toronto;
- Rafael Garduno-Rivera, Universidad Panamericana;
- Ethan Baron, University of Toronto;
- ariel arcos, Catholic University of the North;

15. Entrepreneurship (Virtual)
Monday | 2:00 pm-4:00 pm | Mt Wilson
Chair: Chao Ma, Xiamen University

- Spatial interaction between FDI and female entrepreneurship......Alicia Gómez Tello, Universitat de Valencia & IVIE; Rosella Nicolini, Universitat Autonoma de Barcelona
- Entrepreneurship in China’s Peripheral Regions......Fenjie Long, Shijiazhuang Tiedao University; Tsinghua University; Longfei Zheng, Tsinghua University; Haifeng Qian, University of Iowa
- Housing Purchase Restrictions and Entrepreneurship......Chao Ma, Xiamen University

Discussants:
- Fenjie Long, Shijiazhuang Tiedao University; Tsinghua University;
- Chao Ma, Xiamen University;
- Alicia Gómez Tello, Universitat de Valencia & IVIE;

16. Learning from Machine Learning (Virtual)
Monday | 2:00 pm-4:00 pm | Torrey’s Peak

Chair: Gary Cornwall, BEA

- Reducing Reoffense in First-Time DUI Cases, A Machine Learning Approach......Shantanu Awasthi, North Dakota State University; Ihsan Khan, North Dakota State University; Yun Zhou, North Dakota State University; Kimberly Vachal, North Dakota State University
- Understanding Equitable Outcomes in Public Service Coproduction via Machine Learning: An Analysis of 311 Service Requests of Miami-Dade County......Shaoming Cheng, Florida International University; Sukumar Ganapati, Florida International University; Giri Narasimhan, Florida International University
- For What It’s Worth: Measuring Land Value in the Era of Big Data and Machine Learning......Gary Cornwall, BEA; Jeremy Moulton, University of North Carolina - Chapel Hill; Scott Wentland, BEA

Discussants:
- Shaoming Cheng, Florida International University;
- Gary Cornwall, BEA;
- Shantanu Awasthi, North Dakota State University;

17. In Honor of Kieran Donaghy II
Monday | 2:00 pm-4:00 pm | Mt Princeton

Organizer: John Carruthers, Cornell University
Chair: Geoffrey Hewings, Bank of Italy
- Income Interdependence in the UK Multi-Regional Economy.....André Carrascal Incera, University of Oviedo; Geoffreym Hewings, Bank of Italy
- Urbanization and Child Growth Failure in Sub-Saharan Africa: A Geographical Analysis.....Yating Ru, Cornell University; John Carruthers, Cornell University; Beliyou Haile, International Food Policy Research Institute
- The Long Shadow of Major Disaster: Dynamic Regional Economic Consequences of the HayWired Earthquake Scenario.....Ian Sue Wing, Boston University; Dan Wei, University of Southern California; Adam Rose, University of Southern California; Anne Wein, U.S. Geological Survey
- Residential Vertical Price Curve in Beijing.....Ziye Zhang, Princeton University; Wenzheng Li, Cornell University

Discussants:

- Ziye Zhang, Princeton University;
- Adam Rose, University of Southern California;
- Geoffrey Hewings, Bank of Italy;
- Yating Ru, Cornell University;

18. Transportation 2 (Virtual)
Monday | 4:00 pm-6:00 pm | Maroon's Peak

Chair: Ihsan Khan, North Dakota State University

- Does High-Speed Rail Improve the Attractiveness of Cities? Evidence from China.....Junmei Cheng, Ohio State University; Zhenhua Chen, Ohio State University
- Standing Strong? The Impact of Public Transit on Firms: A Survival Analysis.....Marie-Pier Champagne, Laval University; Jean Dubé, Laval University
- Data-Driven Seatbelt and Impaired Driving Enforcement Priorities, North Dakota Case Study.....Ihsan Khan, North Dakota State University; Kimberly Vachal, North Dakota State University

Discussants:

- Marie-Pier Champagne, Laval University;
- Ihsan Khan, North Dakota State University;
- Junmei Cheng, Ohio State University;

19. Housing Market II (Virtual)
Monday | 4:00 pm-6:00 pm | Mt Columbia

Chair: Mitchell Livy, California State University - Fullerton
- *It's the Smell: How Resolving Uncertainty about Local Disamenities Affects the Housing Market.* Gary Cornwall, BEA; Scott Wentland, BEA; Jeff Chen, University of Cambridge
- *Predicting Housing Construction Period Based on Cox Proportional Hazard Model - An Empirical Study of Housing Completions in the Greater Toronto and Hamilton Area.* Billy Zhang, University of Toronto; Eric Miller, University of Toronto
- *Determining the Drivers of Housing Market Seasonality.* Mitchell Livy, California State University - Fullerton

**Discussants:**

- Billy Zhang, University of Toronto;
- Mitchell Livy, California State University - Fullerton;
- Gary Cornwall, BEA;

### 20. Neighborhood and Localities (Virtual)
**Monday | 4:00 pm-6:00 pm | Mt Princeton**

**Chair:** David Folch, Northern Arizona University

- *MEDIA AND CORRUPTION IN BRAZILIAN MUNICIPALITIES.* Suzana Quinet Bastos, Federal University of Juiz de Fora; Fabio Gama, Federal University of Brasilia; Ana Beatrice Maciel, Federal University of Juiz de Fora
- *The Association of Neighborhood Childhood Opportunity with Young Adult Arrest Rates in Dallas, TX.* Alaina Beauchamp, University of Texas Health Sciences Center at Houston; Amy Hughes, University of Texas Southwestern Medical Center
- *Measuring the Gentrification Life Course in US Neighborhoods.* David Folch, Northern Arizona University

**Discussants:**

- Alaina Beauchamp, University of Texas Health Sciences Center at Houston;
- David Folch, Northern Arizona University;
- Suzana Quinet Bastos, Federal University of Juiz de Fora;

### 22. Urban Development & Sustainability (Virtual)
**Monday | 4:00 pm-6:00 pm | Torrey's Peak**

**Chair:** Conor O'Driscoll, University College Cork

- *Urban growth in the long term: Belgium, 1880–1970.* Rafael González-Val, Universidad de Zaragoza; Arturo Ramos, Universidad de Zaragoza; Samuel Standaert, Ghent University
Coming Out of the Woods. Do local support services influence the propensity to report sexual violence? daria denti, GSSI

Retail Sprawl and CO2 emissions: the location of large retail centres in Irish cities. Conor O’Driscoll, University College Cork; Frank Crowley, University College Cork; Justin Doran, University College Cork; Noirín McCarthy, University College Cork

Discussants:
- Rafael González-Val, Universidad de Zaragoza;
- daria denti, GSSI;
- Conor O’Driscoll, University College Cork;
- Wenzheng Li, Cornell University;

21. Regional/Rural Development (Virtual)
Monday | 4:00 pm-6:00 pm | Mt Wilson

Chair: Ricardo Arguello, Universidad de Ibague

Native Population Turnover & Emerging Segregation: The Role of Amenities, Crime and Housing Martin Korpi, Ratio Institute; Daniel Halvarsson, Ratio Institute; Özge Öner, Cambridge University; William A.V. Clark, University of California - Los Angeles; Oana Mihaescu, Bank of Italy; Olof Bäckman, Stockholm University; John Öst, Uppsala University

Understanding the spread of COVID-19 infection in the major cities of the United States Khyati Malik, Ohio State University

Agricultural policy and informality. A post conflict perspective in Colombia Ricardo Arguello, Universidad de Ibague

Discussants:
- Khyati Malik, Ohio State University;
- Ricardo Arguello, Universidad de Ibague;
- Martin Korpi, Ratio Institute;
Wednesday, November 10, 2021
In-Person Meetings in Denver, CO

23. Spatial Data Analysis with PySAL And GeoSNAP
Wednesday | 8:00 am-5:00 pm | Mt Columbia

Instructors:
- Sergio J. Rey. Professor of Public Policy & Founding Director of the Center for Geospatial Sciences at the University of California, Riverside.
- Elijah Knaap. Project director for PySAL & the creator of the open-source package STARS: Space-Time Analysis of Regional Systems.

A unique feature of this tutorial is the use of Python-based software tools for spatial data analysis. Python is an object-oriented scripting language that is gaining rapid adoption in the computational sciences. Since its initial release in July 2010, PySAL has been downloaded over 1 million times. This two-part tutorial will first provide participants with an introduction to Python and related tools for spatial and regional analysis. Part I is thus designed for participants with no prior Python experience, while the second part assumes knowledge of materials covered in Part I. In the second part of the tutorial, participants will learn version 2.5 of PySAL applied to spatial and regional analysis.

24. IMPLAN Workshop: Occupation, Environmental, and Even More Data in IMPLAN
Wednesday | 8:00 am-5:00 pm | Mt Wilson

Instructors:
- Candi Clouse, PhD. Director of Education Services for IMPLAN.
- Michael Nealy. Education Support Specialist at IMPLAN.

This IMPLAN workshop is a one day interactive training course designed for veteran IMPLAN users to dive into the new offerings in IMPLAN including occupation data, environmental data, and our Data Library. The workshop will cover the three newest offerings in IMPLAN. IMPLAN occupation data shows estimates of occupation employment, wages, hours, and core competencies which include knowledge, skills, abilities, education, work experience, and on-the-job training levels for each of over 800 different occupations. Occupation data can be examined for each region and is tied to economic impact analyses.

IMPLAN’s environmental data consist of Industry-specific coefficients of physical emissions or resource use per dollar of Industry Output. This brand new dataset will be released in the summer of 2021 and this will be the first training to dig into how the environmental data corresponds to economic impacts analyses. Finally, this workshop will dive into IMPLAN’s Data Library. This is an improved option for comparing data across regions, industries, and time. Data
Library is a new IMPLAN data product powered by Looker that allows you to produce data queries and reports on any region in the US on commodities, core competencies, deflators, demographics, employment & wages, environmental, industry, occupation, tax, and trade flow data. Upon completion of the workshop, users should feel comfortable using the new data offerings in conjunction with their economic impact analyses.

Plenary Session
The RSAI Fellows Lecture
Wednesday | 6:30 pm-7:30 pm | Aspen
- Chair: Sergio Rey. Professor, School of Public Policy, University of California, Riverside.
- Speaker: Adam Rose. Research Professor, Price School of Public Policy, University of Southern California.

Icebreaker Reception
Wednesday | 8:00 pm-9:00 pm | Aspen Foyer
Thursday, November 11, 2021
In-Person Meetings in Denver, CO

27. Advanced Brainstorm Carrefour (ABC) of The Regional Science Academy: Pandemic and the City
Thursday | 8:00 am-10:00 am | Mt Columbia

Organizers: Peter Nijkamp, Bank of Italy; Neil Reid, University of Toledo;

An Advanced Brainstorm Carrefour (ABC) session on Pandemic and the City offered by The Regional Science Academy (TRSA) to NARSC. The main organizers are: Peter Batey, Güney Celbiş, Kingley Haynes, Karima Kourtit, Peter Nijkamp, and Neil Reid.

- A Post-Corona Perspective for Smart Cities: Should I Stay or Should I Go? | Saskia Sassen and Karima Kourtit
- Advances in a Localised Corona Dutchboard | Peter Nijkamp, Karima Kourtit, John Osth & Umut Turk

28. Regional/Rural Development I: Broadband
Thursday | 8:00 am-10:00 am | Mt Oxford

Organizers: Sarah Low, University of Missouri; Stephan Weiler, Colorado State University;
Chair: John Pender, USDA Economic Research Service

- Broadband and local economic development: Evidence from Louisiana......Tim Komarek, Old Dominion University; Gary Wagner, University of Louisiana at Lafayette
- Measuring the Impact of the Broadband Initiatives Program on Property Values......Joshua Goldstein, University of Virginia; Aritra Halder, University of Virginia; John Pender, USDA Economic Research Service; Neil Kattampallil, University of Virginia; Devika Mahoney-Nair, University of Virginia; Aaron Schroeder, University of Virginia; Stephanie Shipp, University of Virginia; Sallie Keller, University of Virginia
- Place-Based Subsidies and Employment Growth in Rural America: Evidence from the Broadband Initiatives Program......Anil Rupasingha, USDA; John Pender, USDA Economic Research Service; Ryan Williams, USDA Economic Research Service
- Broadband, Self-Employment, and Work-from-Home — Evidence from the American Community Survey......Luyi Han, Pennsylvania State University

Discussants:

- Joshua Goldstein, University of Virginia;
- Catherine Isley, University of Missouri - Columbia;
- John Pender, USDA Economic Research Service;
29. NARSC Business Meeting  
Thursday | 8:00 am-10:00 am | Colorado A

**Coffee Break**  
Thursday | 10:00 am-10:30 am | Columbia Foyer

**Plenary Session**  
**The NARSC Presidential Address**  
Thursday | 10:30 am-12:30 pm | Aspen

Chair: Jason Brown, Federal Reserve Bank of Kansas City  
Speaker: Steve Deller Professor and Community Development Specialist Center for Community and Economic Development University of Wisconsin, Madison

**Lunch**  
Thursday | 12:30 pm-1:30 pm | on your own

32. Impacts of Covid-19 on People and Small Businesses  
Thursday | 1:30 pm-3:30 pm | Mt Columbia

Chair: Soomi Lee, University of La Verne

- *Understanding mobility change in response to COVID-19: A Los Angeles Case Study* ......Yougeng Lu, University of Southern California; Genevieve Giuliano, University of Southern California
- *The Effects of COVID-19 on the U.S. Labor Force Nonparticipation* ......Oudom Hean, North Dakota State University; Nattanicha Chairassamee, Kasetsart University
- *Different Sizes of Small Businesses In the COVID-19 Pandemic: The Role of Work from Home* ......Ting Zhang, University of Baltimore
- *Regional Banking Market and Emergency Loans to Small Businesses: Examining the Paycheck Protection Program during the Covid-19 Pandemic* ......Soomi Lee, University of La Verne
Discussants:

- Oudom Hean, North Dakota State University;
- Ting Zhang, University of Baltimore;
- Soomi Lee, University of La Verne;
- Yougeng Lu, University of Southern California;

33. Regional/Rural Development II: COVID-19
Thursday | 1:30 pm-3:30 pm | Mt Oxford

Organizers: Sarah Low, University of Missouri; Stephan Weiler, Colorado State University;
Chair: Khyati Malik, Ohio State University

- Living and Working in Rural Regions: Survey Perceptions During the COVID Pandemic.....Mallory Rahe, University of Missouri - Columbia; Sarah Low, University of Missouri - Columbia; Andrew Van Leuven, University of Missouri - Columbia
- Resiliency and Vulnerability to COVID-19 in Small Towns......David Peters, Iowa State University; Nicole Novak, University of Iowa; Mark Berg, University of Iowa

Discussants:

- Andrew Van Leuven, University of Missouri - Columbia;
- David Peters, Iowa State University;
- Elizabeth Dobis, USDA Economic Research Service;
- Khyati Malik, Ohio State University;

34. Machine Learning in Regional Science: Perspectives, Methods, and Applications
Thursday | 1:30 pm-3:30 pm | Mt Wilson

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

- Machine Learning Application to Spatio-Temporal Modeling of Land-Use Changes Using Florida Parcel-Level Data......Emre Tepe, University of Florida; Abolfazl Safikhani, University of Florida; Yuna Kim, University of Florida
- Promoting Earthquake Risk Reduction for Wood-Frame Soft-Story Buildings: A Case Study of San Francisco’s Seismic Retrofit Program......Yating Zhang, University of Maryland - College Park; Juan Fung, national institute of standards and technology
- Explanatory random forest: A critical comparison of approaches using on-road CO2 emissions at the block group level......Kevin Credit, Maynooth University; Matthew Lehnert, Al Akhawayn University; Barrett Lopez, University of Chicago
Discussants:

- Yating Zhang, University of Maryland - College Park;
- Kevin Credit, Maynooth University;
- Emre Tepe, University of Florida;

35. Exploring Spatial Variations and Effects in the Labor Market  
Thursday | 1:30 pm-3:30 pm | Torrey’s Peak

Chair: John Winters, Iowa State University

- Spatial social effects on the decision to participate in the youth labor market in a developing country......Jhon James Mora R, Universidad ICESI
- Spatial Variation in Census Responses, Voting Behavior, and Labor Participation: A Spatial SUR Analysis......Zheng Tian, Pennsylvania State University; Stephan Goetz, Pennsylvania State University
- Field-of-Study Mismatch and the Impact on Regional Growth......Brandon Genetin, Ohio State University
- Immigrant Self-Employment across the United States......John Winters, Iowa State University

Discussants:

- Zheng Tian, Pennsylvania State University;
- Brandon Genetin, Ohio State University;
- John Winters, Iowa State University;
- Jhon James Mora R, Universidad ICESI;

36. Demographic Transitions: Regions, Cities and Neighborhoods  
Thursday | 1:30 pm-3:30 pm | Maroon’s Peak

Organizer: Bruce Newbold, McMaster University  
Chair: Bruce Newbold, McMaster University

- The pathway to success: global education context and inequality in STEM......Sijiao Xie, Arizona State University
- Drought, Crop Yield and Outmigration, County-level Evidence from the U.S.......Farjana Ahmed, Colorado State University
- The Impact of the Two Child Policy on China’s Fertility Rate......seunghun chung, Ohio State University
- Stepping Out: Technology Validation of Personal Mobility Monitoring Technology......Bruce Newbold, McMaster University; Marla Beauchamp, McMaster University; Darren Scott, McMaster University; Renata Kirkwood, McMaster University; Cody Cooper, McMaster University; Matthew Brown, McMaster University; Vincenza
Gruppuso, mcmaster; Ayse Kuspinar, McMaster University; Julie Richardson, McMaster University; Brenda Vrkljan, McMaster University; Qiyin Fang, McMaster University; Paul McNicholas, McMaster University; Paula Gardner, McMaster University; Manaf Zargoush, McMaster University

Discussants:
- Farjana Ahmed, Colorado State University;
- seunghun chung, Ohio State University;
- Bruce Newbold, McMaster University;
- Sijiao Xie, Arizona State University;

31. Regional Governance
Thursday | 1:30 pm-3:30 pm | Mt Princeton

Chair: Jaewon Lim, University of Nevada - Las Vegas

- Network effects of Local corruption on Foreign Direct Investment: Evidence from China......Yao-Yu Chih, Texas State University; Firat Demir, University of Oklahoma; Chenghao Hu, San Francisco State University; Hewei Shen, University of Oklahoma
- LitioMex: a new governance model for Lithium in Mexico. A Law & Economic analysis.......Rafael Garduno-Rivera, Universidad Panamericana; Miguel Marmolejo-Cervantes, UANL
- The Improvement of the Regional Regulatory Governance System for Radiation Risk Management: Spatial Analysis on Radiation Hazards in South Korea......Sangwon Lee, Korea Institute of Nuclear Safety; Jaewon Lim, University of Nevada - Las Vegas

Discussants:
- Rafael Garduno-Rivera, Universidad Panamericana;
- Sangwon Lee, Korea Institute of Nuclear Safety;
- Yao-Yu Chih, Texas State University;

Coffee Break
Thursday | 3:30 pm-4:00 pm | Columbia Foyer

38. Public & Community Health
Thursday | 4:00 pm-6:00 pm | Maroon's Peak

Chair: Brian Cushing, West Virginia University
- Reimagining the food desert: The role of relative food access on community health outcomes......Shriya Rangarajan, Cornell University
- Social Determinants of Health and Clinical Hypertension Prevalence on Chicago’s South Side......Marynia Kolak, University of Chicago
- An Evaluation of Databases Drawn from the National Survey of Substance Abuse Treatment Services (N-SSATS)......Brian Cushing, West Virginia University; Elham Erfanian, University of Kentucky

**Discussants:**

- Marynia Kolak, University of Chicago;
- Brian Cushing, West Virginia University;
- Shriya Rangarajan, Cornell University;

**40. Determining Housing Price**

**Thursday | 4:00 pm-6:00 pm | Mt Princeton**

**Chair:** Rounaq Basu, Massachusetts Institute of Technology

- Housing Price Indices from volunteered data: The need for expansion weights......Esteban Lopez, University of Texas - San Antonio
- Better, faster, more diverse? Fiber internet expansion and its implications for housing prices and neighborhood demographics......Nicholas Irwin, University of Nevada - Las Vegas; David Wolf, Kobe University
- Exploring housing programs and market responses to car-lite policies: A LUTI microsimulation approach......Rounaq Basu, Massachusetts Institute of Technology; Joseph Ferreira, Massachusetts Institute of Technology

**Discussants:**

- Nicholas Irwin, University of Nevada - Las Vegas;
- Rounaq Basu, Massachusetts Institute of Technology;
- Esteban Lopez, University of Texas - San Antonio;

**41. Measurements & Methods**

**Thursday | 4:00 pm-6:00 pm | Mt Wilson**

**Chair:** Yongwan Chun, University of Texas - Dallas

- Instrumental Variable Network Difference-in-Differences (IV-NDID) estimator: model and application......Sandy Dall'erba, University of Illinois - Urbana-Champaign; William Ridley, University of Illinois - Urbana-Champaign; Yilan Xu, University of Illinois - Urbana-Champaign; Andre Chagas, Bank of Italy
- *Forecasting Regional Unemployment across National Boundaries*......Roberto Patuelli, University of Bologna; Matias Mayor, University of Oviedo
- *Understanding the Differences in Labor Force Participation Rates*......Heather Stephens, West Virginia University; Steven Deller, University of Wisconsin - Madison
- *Impacts of variable uncertainty in spatial interaction modeling of population flows*......Yongwan Chun, University of Texas - Dallas; Daniel Griffith, University of Texas - Dallas; David Wong, George Mason University

**Discussants:**

- Roberto Patuelli, University of Bologna;
- Heather Stephens, West Virginia University;
- Yongwan Chun, University of Texas - Dallas;
- Sandy Dall’erba, University of Illinois - Urbana-Champaign;

**42. Diversity, Equity, and Inclusion in Regional Economic Development - REMI Sponsored**

**Thursday | 4:00 pm-6:00 pm | Mt Columbia**

**Organizer:** Fred Treyz, Regional Economic Models Inc

**Chair:** Fred Treyz, Regional Economic Models Inc

- *Credit Availability for Minority Business Owners in an Evolving Credit Environment: Before and During the COVID-19 Pandemic*......Mark Schweitzer, Federal Reserve Bank of Cleveland; Brett Barkley, Federal Reserve Bank of Cleveland
- *House Prices in Black Neighborhoods: Exploring Heterogeneity Across the House Price Distribution*......Tammy Leonard, University of Dallas; Lei Zhang, North Dakota State University
- *Transit-induced Agglomeration, Opportunity, and Equity: A spatial econometric analysis on job opportunity by skill level and industry sector in Philadelphia, PA*......Seunghoon Oh, University of Cincinnati; Rainer vom Hofe, University of Cincinnati
- *REMI Modeling of Diversity, Equity, and Inclusion (DEI) Impacts of National, State, and Local Policy*......Fred Treyz, Regional Economic Models Inc; Peter Evangelakis, Regional Economic Models Inc; Katy Koon, Regional Economic Models Inc; Haozheyi Guan, Regional Economic Models Inc; Kevin Persons, Regional Economic Models Inc; May Lin, Regional Economic Models Inc

**Discussants:**

- Peter Evangelakis, Regional Economic Models Inc;
- Katy Koon, Regional Economic Models Inc;
- Fred Treyz, Regional Economic Models Inc;
- Haozheyi Guan, Regional Economic Models Inc;
- May Lin, Regional Economic Models Inc;
- Kevin Persons, Regional Economic Models Inc;
39. Regional/Rural Development VIII: Health and Housing Impacts  
Thursday | 4:00 pm-6:00 pm | Mt Oxford

Organizers: Sarah Low, University of Missouri; Stephan Weiler, Colorado State University;  
Chair: Scott Langford, University of North Carolina - Chapel Hill

- We’re Not in Dreamland Anymore: How Region-Level Opioid Use Affects Firm Resources and Industrial Composition......Scott Langford, University of North Carolina - Chapel Hill
- High Minded and High Priced: Legalized Marijuana’s Impact on Denver Colorado Housing Prices......Jorgen Rasmussen, Colorado State University; Stephan Weiler, Colorado State University
- With Nothing But the Clothes on Their Back The Role of Personal Bankruptcy Protections on Homelessness: Do Property Exemptions Provide an Effective Cushion?......Ignacio Correas, Colorado State University; Stephan Weiler, Colorado State University
- Sources and Labor Market Consequences of Increases in Rural Prime Age Mortality and Disability......Sarah Low, University of Missouri; David McGranahan, USDA Economic Research Service; Andrew Van Leuven, University of Missouri - Columbia; Mark C. White, University of Missouri; Rob Russell, University of Missouri

Discussants:

- Jorgen Rasmussen, Colorado State University;
- Ignacio Correas, Colorado State University;
- Sarah Low, University of Missouri;
- Scott Langford, University of North Carolina - Chapel Hill;

37. Measuring Intangibles  
Thursday | 4:00 pm-6:00 pm | Torrey’s Peak

Chair: Mckenzie Carvalho, Mississippi State University

- Operationalization of Well-Being: A Benefit of the Doubt model for Dutch municipalities......Jeroen Content, PBL Netherlands Environmental Assessment Agency; Mark Thissen, PBL Netherlands Environmental Assessment Agency
- Measuring environmental performance in a Colombian University: The case of the EAN University carbon footprint......Enrique Gilles, College of Higher Studies of Administration
- Measuring Regional Financial Literacy: The Comparison of Methods and Results......Mckenzie Carvalho, Mississippi State University; Ayoung Kim, Mississippi State University; Rebecca Smith, Mississippi State University

Discussants:

- Enrique Gilles, College of Higher Studies of Administration;
- Mckenzie Carvalho, Mississippi State University;
• Jeroen Content, PBL Netherlands Environmental Assessment Agency;

43. NERSA meeting
Thursday | 5:00 pm-6:00 pm | Colorado A

Reception
Thursday | 6:30 pm-8:00 pm | Aspen Foyer
Friday, November 12, 2021
In-Person Meetings in Denver, CO

46. Regional/Rural Development IV: Gender and Industry Studies
Friday | 8:00 am-10:00 am | Mt Oxford

Organizers: Sarah Low, University of Missouri; Stephan Weiler, Colorado State University; Chair: Zheng Tian, Pennsylvania State University

- Female Farmers and Community Wellbeing......Steven Deller, University of Wisconsin - Madison; Claudia Schmidt, Pennsylvania State University; Stephan Goetz, Pennsylvania State University; Zheng Tian, Pennsylvania State University
- A New Look at the Gender Wage Gap......Ayoung Kim, Mississippi State University; Brigitte Waldorf, Purdue University
- Extractive Industry and Gendered Employment Outcomes......Tessa Conroy, University of Wisconsin - Madison; Mairi-Jane Fox, Regis University
- Tourism and Economic Growth in Georgia......Elene Murvanidze, Colorado State University

Discussants:
- Ayoung Kim, Mississippi State University;
- Tessa Conroy, University of Wisconsin - Madison;
- Elene Murvanidze, Colorado State University;
- Claudia Schmidt, Pennsylvania State University;

47. Environment and the Economy
Friday | 8:00 am-10:00 am | Mt Wilson

Chair: Harvey Cutler, Colorado State University

- Simulation Modeling of the Environmental-economic Policy Evaluation in Finland......Katsuhiro Sakurai, Aalto University; Ilkka Jokinen, Aalto University; Matti Lehtonen, Aalto University
- Identifying the atmospheric and economic key drivers of global air pollution change: a combined SDA approach......Sandy Dall’erba, University of Illinois - Urbana-Champaign; Yilan Xu, University of Illinois - Urbana-Champaign; Nicole Riemer, University of Illinois - Urbana-Champaign
- Estimating the economic impacts of cost savings in electricity generation due to improved windspeed forecasts......Harvey Cutler, Colorado State University; Brad Hartman, Colorado State University; Hwayoung Jeon, Colorado State University; Martin Shields, Colorado State University; Dave Turner, U.S. Department of Commerce
Discussants:

- Sandy Dall’erba, University of Illinois - Urbana-Champaign;
- Harvey Cutler, Colorado State University;
- Katsuhiro Sakurai, Aalto University;

48. Location and Spatial Analysis I
Friday | 8:00 am-10:00 am | Torrey’s Peak

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

- Solving a location-allocation problem that addresses access and coverage......Seonga Cho, University of California - Santa Barbara; Alan Murray, University of California - Santa Barbara; Somayeh Dodge, University of California - Santa Barbara
- Using quantum computing to solve NP-hard problems in regional science: The Maximal Covering Location Problem and the p-regions problem......Alejandro Giraldo, EAFIT University; Juan G. Lalinde, EAFIT University; Daniel Sierra-Sosa, Hood College; Juan Duque, EAFIT University
- The p-innovation ecosystems problem......Daniel Restrepo, University of Texas - Austin; Juan Duque, EAFIT University; Richard Church, University of California - Santa Barbara
- The alternatives to formulating classic location problems, part I: the p-median problem......Richard Church, University of California - Santa Barbara

Discussants:

- Ran Wei, University of California - Riverside;
- Xin Feng, University of Oklahoma;
- Amelia Pludow, University of California - Santa Barbara;
- Hyun Kim, University of Tennessee;

49. The Colombian Economy and its Regional Structural Challenges
Friday | 8:00 am-10:00 am | Maroon’s Peak

Organizers: Eduardo Haddad, University of São Paulo; Jaime Bonet, Banco de la República; Geoffrey Hewings, Bank of Italy;
Chair: Eduardo Haddad, University of São Paulo

- The Colombian Economy and its Regional Structural Challenges......Eduardo Haddad, University of São Paulo; Jaime Bonet, Banco de la República; Geoffrey Hewings, Bank of Italy
- Revisiting the Structural Interdependence among Colombian Departments......Fernando Perobelli, Federal University of Juiz de Fora; Geoffrey Hewings, Bank of Italy
• **Trade in Value-Added: Does MFN Status Matter for Colombian Regions?**...Rodrigo Pacheco, University of São Paulo; Inácio Araújo, University of São Paulo; Eduardo Haddad, University of São Paulo

**Discussants:**

- Fernando Perobelli, Federal University of Juiz de Fora;
- Inácio Araújo, University of São Paulo;
- Geoffrey Hewings, Bank of Italy;

50. **TRSA - SAS special session: The New Data Revolution in Regional Science: A Tribute to the Late Stan Czamanski** I  
Friday | 8:00 am-10:00 am | Mt Columbia  
Sponsored by SAS (Special Academic Session) of The Regional Science Academy, in cooperation with International Regional Science Review

Organizers/coordinators: Dani Broitman, Karima Kourtit, Daniel Czamanski, Peter Nijkamp, and Peter Batey

- Demo-economic Modeling: Review and Prospects | Peter Batey and Geoffrey Hewings
- Implications for Regional Science of the "Rebuilding Macroeconomic Theory Project" | Kieran P. Donaghy
- Endogenous Growth in a Spatial Economy: The Impact of Globalization on Innovations and Convergence | Dani Broitman and Daniel Czamanski

45. **Public Finance I**  
Friday | 8:00 am-10:00 am | Mt Princeton

**Chair:** Marina Manganaris, George Mason University

- **Expenditure Smoothing with Balanced Budget Rules: US State Governments**......Steven Craig, University of Houston; Bent Sorensen, University of Houston; Xavier Bautista, Sim Kee Boon Institute for Financial Economics; Priyam Verma, Aix-Marseille School of Economics; Yu-Hsin Hiu, University of Houston; Vasundhara Tanwar, University of Houston
- **Property Tax Limitations and Housing Prices**......Collin Hodges, University of Central Arkansas; Zachary Keeler, Texas Tech University; Heather Stephens, West Virginia University
- **Declining transport costs, declining tax base? The impact of limits to tax collection from e-commerce**......Juan Carlos Lopez, university of denver
- **Crisis Impacts on Transportation Infrastructure Financing: Cost of Capital Considerations for P3 and Conventional Projects**......Marina Manganaris, George Mason University; Narae Lee, George Mason University; Carter Casady, George Mason University; Jonathan
Gifford, George Mason University; Tim Hurley, George Mason University; Caroline Gao, George Mason University

Discussants:

- Collin Hodges, University of Central Arkansas;
- Juan Carlos Lopez, University of Denver;
- Marina Manganaris, George Mason University;
- Steven Craig, University of Houston;

Coffee Break
Friday | 10:00 am-10:30 am | Columbia Foyer

54. Transportation and the COVID-19 Pandemic
Friday | 10:30 am-12:30 pm | Maroon’s Peak

Organizers: Eleni Bardaka, North Carolina State University; Dimitra Pyrialakou, West Virginia University;
Chair: Dimitra Pyrialakou, West Virginia University

- The Impact of COVID-19 on Texas Rural Transit Districts with Emphasis on Their Older Adult Riders......Mark Dinhobl, Texas A&M University; Sarah Fasanando, Texas A&M University; Rebekka Dudensing, Texas A&M University; James Mjelde, Texas A&M University
- Will Employees Continue to Telecommute after COVID-19 Pandemic?......Motahare Mohammadi, University of Illinois - Chicago; Ehsan Rahimi, University of Illinois - Chicago; Amir Davatgari, University of Illinois - Chicago; Mohammadjavad Javadinasr, University of Illinois - Chicago; Ali Shamshiripour, Massachusetts Institute of Technology; Abolfazl Mohammadian, University of Illinois - Chicago; Deborah Salon, Arizona State University; Rishabh Singh Chauhan, University of Illinois - Chicago; Matthew Wigginton Conway, Arizona State University; Denise Capasso da Silva, Arizona State University; Sybil Derrible, University of Illinois - Chicago; Ram M. Pendyala, Arizona State University
- An inverse OD matrix model to quantify Covid-19 propagation via transportation networks......Daniel Graham, Imperial College London

Discussants:

- Motahare Mohammadi, University of Illinois - Chicago;
- Daniel Graham, Imperial College London;
- Mark Dinhobl, Texas A&M University;
55. Regional/Rural Development V: Labor, Race and Ethnicity  
Friday | 10:30 am-12:30 pm | Mt Oxford

Organizers: Sarah Low, University of Missouri; Stephan Weiler, Colorado State University;  
Chair: Luke Petach, Belmont University

- *Pushed, Pulled, and Stuck: Labor Markets and Barriers to Growth for Business Owners of Color*.....Nicholas Kacher, Scripps College; Austin Landini, Colorado State University; Stephan Weiler, Colorado State University; Tessa Conroy, University of Wisconsin - Madison; Mary McDermott, Harvard University
- *Exploring the relationship among the intensity of Farm to School program activities, the local food environment, and stocks of community wealth*.....Pratyoosh Kashyap, Colorado State University; Becca Jablonski, Colorado State University; Allie Bauman, Colorado State University
- *Impacts of the Broadband Initiatives Program on Different Racial and Ethnic Groups*.....John Pender, USDA Economic Research Service; Joshua Goldstein, University of Virginia; Aritra Halder, University of Virginia; Devika Mahoney-Nair, University of Virginia; Aaron Schroeder, University of Virginia; Stephanie Shipp, University of Virginia; Sallie Keller, University of Virginia; Anil Rupasingha, USDA

Discussants:
- Catherine Isley, University of Missouri - Columbia;
- John Pender, USDA Economic Research Service;
- Nicholas Kacher, Scripps College;
- Luke Petach, Belmont University;

56. Location and Spatial Analysis II  
Friday | 10:30 am-12:30 pm | Torrey's Peak

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

- An open-source framework to measure pedestrian accessibility for cities worldwide.....Shiqin Liu, Northeastern University; Carl Higgs, Royal Melbourne Institute of Technology; Jonathan Arundel, Royal Melbourne Institute of Technology; Geoff Boeing, University of Southern California; Nicholas Cerdera, University of Southern California; David Moctezuma, University of Southern California; Ester Cerin, Australian Catholic University; Deepti Adlakha, Queen's University Belfast; Melanie Lowe, University of Melbourne; Billie Giles-Corti, Royal Melbourne Institute of Technology
• A Local Gaussian Process Regression approach to Mass Appraisal of Residential Properties. Jacob Dearmon, Oklahoma City University; Tony Smith, University of Pennsylvania

• Spatial and Racial Group Disparities of COVID-19 Mortality: an Exploratory Spatial Analysis to Understand Dimensions of Structural Factors. Qinyun Lin, University of Chicago; Susan Paykin, University of Chicago; Dylan Halpern, University of Chicago; Andrés Crucetta, University of Chicago; Marynia Kolak, University of Chicago

• What about institutions in Regional Science? Carlos Baez, University of California - Santa Barbara

Discussants:

• Marynia Kolak, University of Chicago;
• Yongwan Chun, University of Texas - Dallas;
• William A.V. Clark, University of California - Los Angeles;
• Shiqin Liu, Northeastern University;

52. Public Finance II
Friday | 10:30 am-12:30 pm | Mt Princeton

Chair: David Brasington, University of Cincinnati

• Philadelphia’s Sugary Beverage Tax: A CGE Analysis of Child Daycare and Labor Market Services. Michael Lahr, Rutgers University

• The effect of school district social media usage on school bond election outcomes. Nicholas Messenger, Ohio State University

• Rent Capture by Central Cities. Steven Craig, University of Houston; Annie Hsu, University of Houston; Janet Kohlhase, University of Houston

• Investment in Local Government Services Spurs New Construction of Commercial and Retail Buildings. David Brasington, University of Cincinnati; Evan Carson, University of Cincinnati

Discussants:

• Nicholas Messenger, Ohio State University;
• Steven Craig, University of Houston;
• David Brasington, University of Cincinnati;
• Michael Lahr, Rutgers University;

53. Property Values
Friday | 10:30 am-12:30 pm | Mt Wilson

Chair: Yang Zhou, University of North Texas
• *The Value of Historic District Status*......Carlianne Patrick, Georgia State University
• *The Impact of Legalizing Accessory Dwelling Unit Rentals on Property Values: Evidence from Ogden, Utah*......Jennifer Gnagey, Weber State University; Matt Gnagey, Weber State University; Christopher Yencha, Bradley University
• *Craft Breweries and Residential Property Values*......Yang Zhou, University of North Texas; Michael Carroll, University of North Texas; Neil Reid, University of Toledo

Discussants:

• Jennifer Gnagey, Weber State University;
• Yang Zhou, University of North Texas;
• Carlianne Patrick, Georgia State University;

51. TRSA - SAS special session: The New Data Revolution in Regional Science: A Tribute to the Late Stan Czarnanski II
Friday 10:30 am-11:30 am Mt Columbia

• Gravitational Analysis in Regional Science and Spatial Economics: A Vector Gradient Approach to Trade | Peter Nijkamp and Waldemar Ratajczak
• A Structural Equation Model for Place-based City Love: An Application to Swedish Cities | Karima Kourtit, Bart Neuts, Peter Nijkamp, and Marie H. Wahlstrom
• A Solution for Absent Spatial Data: The Common Correlated Effects Estimator | Michael Beenstock and Daniel Felsenstein

57. Great Minds in Regional Science
Friday 11:30 am-12:30 pm Mt Columbia

Chair: Peter Batey, The Regional Science Academy (TRSA)

58. SRSA Business Meeting
Friday 12:30 pm-1:30 pm Colorado A

Lunch
Friday 12:30 pm-1:30 pm on your own

60. Regional/Rural Development VI: Rural-Urban Bridges
Friday 1:30 pm-3:30 pm Mt Oxford

Organizers: Sarah Low, University of Missouri; Stephan Weiler, Colorado State University; Chair: Austin Landini, Colorado State University
• *Demographics and Economic Health: An Analysis of Colorado Census Tracts*......Austin Landini, Colorado State University
• *So Close, Yet So Far: The Benefits and Limits of Rural-Urban Industry Linkages*......Anders Van Sandt, University of Wyoming; Craig Carpenter, Texas A&M University
• *Rural Agglomeration: Examining the Population Distribution Between Towns and the Open-Countryside in Rural America*......Austin Sanders, U.S. Department of Agriculture; Sarah Low, University of Missouri - Columbia
• *A Tale of Four Cities, from Big City to Rural*......Jeff Romine, City & County of Broomfield

**Discussants:**

- Anders Van Sandt, University of Wyoming;
- Austin Sanders, U.S. Department of Agriculture;
- Jeff Romine, City & County of Broomfield;
- Austin Landini, Colorado State University;

61. Innovation: Landscape & Resilience  
Friday | 1:30 pm-3:30 pm | Mt Wilson

**Chair:** Timothy Slaper, Indiana University

• *How Entrepreneurial Experiences Foster Resilience - Survival and Performance of New Ventures and Incumbents*......Pontus Braunerhjelm, KTH Royal Institute of Technology; Emma Lappi, Jonkoping International Business School
• *‘Hipsters vs. Geeks?’ and Patenting Productivity: A Replication Using an Unbiased Measure*......Timothy Wojan, National Science Foundation
• *Defining the Landscape of Intellectual Property: Mapping patent creation by technology class*......Timothy Slaper, Indiana University

**Discussants:**

- Pontus Braunerhjelm, KTH Royal Institute of Technology;
- Timothy Wojan, National Science Foundation;
- Timothy Slaper, Indiana University;
- Melissa Haller, University of California - Los Angeles;

62. Location Decisions  
Friday | 1:30 pm-3:30 pm | Torrey’s Peak

**Chair:** Gregory Macfarlane, Brigham Young University
Higher Education, College Location, and Migration......Shu Cai, Jinan University; Xiaozhou Ding, Dickinson College; Rui Du, Oklahoma State University

The Impact of Geography, Compensation, and Quality of Life on Location Decisions by Aviation Professionals......Russell Mills, Bowling Green State University; Jason Jolley, Ohio University

Delineating police patrol areas using a p-median location problem......Changho Lee, University of Texas - Dallas; Hyun Kim, University of Tennessee; Yongwan Chun, University of Texas - Dallas; Daniel Griffith, University of Texas - Dallas

Utility-Based Accessibility to Community Resources: An Application of Location-Based Services Data......Gregory Macfarlane, Brigham Young University; Michael Copley, Brigham Young University; Emma Stucki, Brigham Young University

Discussants:

- Russell Mills, Bowling Green State University;
- Changho Lee, University of Texas - Dallas;
- Gregory Macfarlane, Brigham Young University;
- Shu Cai, Jinan University;

63. Round Table Discussion: Pandemics, Location and Mobility
Friday | 1:30 pm-3:30 pm | Mt Columbia
Sponsored by SAS (Special Academic Session) of Regional Science Policy (RSPP) & Practice and The Regional Science Academy

Organizers/coordinators: Tomaz Dentinho, Karima Kourtit, and Louafi Bouzouina Panelists: TBD

64. The Child and Elderly Population in Regional Science
Friday | 1:30 pm-3:30 pm | Mt Princeton
Organizer: Ting Zhang, University of Baltimore
Chair: Ting Zhang, University of Baltimore

- Population Ageing, Immigration and Income Inequality: The Chicago Experience......Geoffrey Hewings, Bank of Italy
- Older Migrant Workers in an Aging China......Haobin Fan, Shanghai Academy of Social Sciences; Xi Bai, Guangdong University of Finance and Economics; Ting Zhang, University of Baltimore
- Recruitment of children in Colombian Municipalities an Spatial Probit approach......Juan Tomas Sayago Gomez, Universidad Icesi
- The long-term economic impacts of migration on children......Rodrigo Perez-Silva, Universidad Mayor; Orsa Kekezi, SOFI

Discussants:
59. Impacts of Transportation Amenities on Community
Friday | 1:30 pm-3:30 pm | Maroon’s Peak

Chair: Isabelle Nilsson, University of North Carolina - Charlotte

- Analyzing America’s Commuter Networks and Economic Activity......Samhitha Srinivas, University of Wisconsin - Madison
- Planning car-lite neighborhoods: How does bikesharing affect auto-dependence and the housing market?......Rounaq Basu, Massachusetts Institute of Technology; Joseph Ferreira, Massachusetts Institute of Technology
- A Longitudinal Analysis of the Relationship between Transportation Amenities and Neighborhood Change using Text from Property Listings......Isabelle Nilsson, University of North Carolina - Charlotte; Elizabeth Delmelle, University of North Carolina - Charlotte

Discussants:

- Rounaq Basu, Massachusetts Institute of Technology;
- Isabelle Nilsson, University of North Carolina - Charlotte;
- Samhitha Srinivas, University of Wisconsin - Madison;

Coffee Break
Friday | 3:30 pm-4:00 pm | Columbia Foyer

66. Covid-19 & the Economy around the Globe
Friday | 4:00 pm-6:00 pm | Mt Columbia

Chair: Euijune Kim, Seoul National University

- Causal effects of the COVID-19 pandemic on the subnational public finances: case study for Colombia......Javier Perez, Banco de la Republica (The Central Bank of Colombia)
- COVID-19 threat to Economic Development in South Asia: An Empirical Study from Bangladesh......Md. Mizanur Rahman Sarker, Sher-e-Bangla Agricultural University; TAHMINA BEGUM, Bangladesh University of Professionals
- Stimulus Package Policy of Bangladesh Compare to Fiscal Space in Response to Covid-19: Perspective to South Asia......TAHMINA BEGUM, Bangladesh University of Professionals; M. Mizanur Rahman Sarker, Sher-e-Bangla Agricultural University
How much does COVID-19 Pandemic cost regions of South Korea? Euijune Kim, Seoul National University; Hojune Lee, Seoul National University; Min Jiang, Seoul National University; Seulki Kim, Seoul National University

Discussants:

- M. Mizanur Rahman Sarker, Sher-e-Bangla Agricultural University;
- TAHMINA BEGUM, Bangladesh University of Professionals;
- Euijune Kim, Seoul National University;
- Javier Perez, Banco de la Republica (The Central Bank of Colombia);

67. Regional/Rural Development VII: Creativity, Innovation and Methods
Friday | 4:00 pm-6:00 pm | Mt Oxford

Organizers: Sarah Low, University of Missouri; Stephan Weiler, Colorado State University;
Chair: Anna Poerbonegoro, Colorado State University

- The Creative and Entertainment Sectors and Employment Growth in Colorado Anna Poerbonegoro, Colorado State University
- Is Surprise Enough for Identification? Evidence from Natural Gas Cash Windfalls and Household Borrowing...Daniel Berkowitz, University of Pittsburgh; Andrew Boslett, Rochester Data Science Consortium; Jason Brown, Federal Reserve Bank of Kansas City; Jeremy Weber, University of Pittsburgh
- The Geography of Self-Reported Innovation: Results from the 2018 Annual Business Survey...Timothy Wojan, National Science Foundation
- The Lag Structure of Rural and Urban Spillovers from Federal R&D...John Mann, Michigan State University; Thomas Keene, Michigan State University; Scott Loveridge, Michigan State University
- Do Patent & Technology Creation and Industry Production Co-locate? (And if so, is it industry dependent?)...Timothy Slaper, Indiana University; Riley Zipper, Indiana University; Zheng Ping, Indiana University

Discussants:

- Timothy Slaper, Indiana University;
- Timothy Wojan, National Science Foundation;
- Thomas Keene, Michigan State University;
- Jason Brown, Federal Reserve Bank of Kansas City;
- Anna Poerbonegoro, Colorado State University;

68. Impacts of Agricultural Production
Friday | 4:00 pm-6:00 pm | Mt Princeton

Chair: Shriya Rangarajan, Cornell University
- *Measuring crop diversity and agricultural intensification: An impact of bionenergy consumption on water quality.* Seong Yun, Mississippi State University; Matthew Interis, Mississippi State University

- *Hoggin’ the Road: Pork Slaughterhouses Increase Heavy Truck Traffic, Reducing Road Quality.* Benjamin Blemings, Cornell University; Margaret Bock, Goucher College; Alex Scarcioffolo, Georgia College & State University

- *Economic Valuation of Hypoxia Impacts on Blue Crab Fishery in the Gulf of Mexico.* Shelby Brewer, Mississippi State University; Seong Yun, Mississippi State University; Daniel Petrolia, Mississippi State University

- *Influences of social capital on the resilience of local food networks: A case-study in Upstate New York.* Shriya Rangarajan, Cornell University

**Discussants:**

- Benjamin Blemings, Cornell University;
- Shelby Brewer, Mississippi State University;
- Shriya Rangarajan, Cornell University;
- Seong Yun, Mississippi State University;

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**69. Environment and Public Health**

**Friday | 4:00 pm-6:00 pm | Mt Wilson**

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

- *Environment and Health Benefit of Cleaner Port Trucks in New Jersey.* Yeonkyeong Park, Cornell University

- *A “Pooling” Equilibrium? Harmful Algal Blooms’ Impact on Home Improvement Decisions.* Will Georgic, Ohio Wesleyan University; David Wolf, Kobe University

- *Urban heat island and vulnerable population in the Global South.* Monica Haddad, Iowa State University; Meen Wook Jung, Iowa State University; Ana Clara Mourao Moura, Federal University of Minas Gerais

**Discussants:**

- Will Georgic, Ohio Wesleyan University;
- Monica Haddad, Iowa State University;
- Yeonkyeong Park, Cornell University;

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**65. Transportation: Preference, Choice, and Consequences**

**Friday | 4:00 pm-6:00 pm | Maroon’s Peak**

**Chair:** Lisa Losada-Rojas, Purdue University
- Long-Distance Travel Impacts of Automated Vehicles: A Survey of American Households......Yantao Huang, University of Texas - Austin; Natalia Zuniga-Garcia, University of Texas - Austin; Kara Kockelman, University of Texas - Austin
- How does the cost of commuting impact an individual's choice in vehicle?......Christina Gore, Ohio State University
- Transportation-Related Energy Consumption: Exploring the Missing Links......Dimitra Pyrialakou, West Virginia University; Amrit Williams, West Virginia University; Wilson McNeil, West Virginia University
- Travel behavior in rural areas: Implications for physical activity and health......Lisa Losada-Rojas, Purdue University; Dimitra Pyrialakou, West Virginia University; Konstantina Gkritza, Purdue University

Discussants:

- Christina Gore, Ohio State University;
- Dimitra Pyrialakou, West Virginia University;
- Lisa Losada-Rojas, Purdue University;
- Yantao Huang, University of Texas - Austin;

70. Location and Spatial Analysis IV
Friday | 4:00 pm-6:00 pm | Torrey's Peak

Organizers: Alan Murray, University of California - Santa Barbara; Ran Wei, University of California - Riverside;
Chair: Daoqin Tong, Arizona State University

- Evaluating wildfire risk reduction scenarios in the wildland-urban interface......Amelia Pludow, University of California - Santa Barbara; Alan Murray, University of California - Santa Barbara
- Parameter settings in regionalization......Xin Feng, University of Oklahoma
- Evaluation of heuristics for local network connectivity optimization: A case study of complex spatial networks......Hyun Kim, University of Tennessee; Jeremy Auerbach, Queen`s University Belfast

Discussants:

- Jacob Dearmon, Oklahoma City University;
- Heewon Chea, University of Tennessee;
- Alejandro Giraldo, EAFIT University;
- Carlos Baez, University of California - Santa Barbara;
Saturday, November 13, 2021
In-Person Meetings in Denver, CO

72. Regional/Rural Development III: Migration and Mobility
Saturday | 8:00 am-10:00 am | Mt Oxford

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

- *Student Mobility and Academic Performance: Evidence from Colorado High Schools*......Kenese Io, Colorado State University
- *Natural and Structural Migrations: Refining Migration Classification*......Peter Schaeffer, West Virginia University
- *“Do Remittances Effect on School Attainment in Tajikistan?”*......Ulmaskhon Kalandarova, Colorado State University; Stephan Weiler, Colorado State University; Anita Pena, Colorado State University
- *Validating Community Disaster Resilience: Evidence from Economic Activity after Tornadoes*......Bradley Ewing, Texas Tech University; Maria Gomez Saldarriaga, East Carolina University; Jamie Kruse, East Carolina University; Anita Pena, Colorado State University

**Discussants:**
- Anita Pena, Colorado State University;
- Ulmaskhon Kalandarova, Colorado State University;
- Kenese Io, Colorado State University;
- Peter Schaeffer, West Virginia University;

73. Papers on Migration
Saturday | 8:00 am-10:00 am | Mt Princeton

**Chair:** Andre Comandon, University of Southern California

- *Human capital migration in and development in oil and gas regions*......Michael Betz, Ohio State University
- *Bilateral Aid and Migration*......Hyeji Jang, Ewha Womans University
- *Moving away from extreme housing cost, where do people go? The case of the Bay Area region*......Andre Comandon, University of Southern California; Seva Rodnyansky, Occidental College; Marlon Boarnet, University of Southern California

**Discussants:**
74. Perspectives in Regional Science  
Saturday | 8:00 am-10:00 am | Mt Wilson

Chair: Zhenhua Chen, Ohio State University

- The Megaregion – Forms, Functions, and Potential? A Literature Review and Search for a Comparative Framework. - Brian Woodall, Georgia Institute of Technology
- An Aggregate Approach to Estimating Quality of Life in Micropolitan Areas. - Amanda Weinstein, University of Akron; Michael Hicks, Ball State University; Emily Wornell, Ball State University
- Rediscovering Regional Science: A Bibliometric Analysis. - Zhenhua Chen, Ohio State University; Laurie Schintler, George Mason University

Discussants:
- Amanda Weinstein, University of Akron;
- Zhenhua Chen, Ohio State University;
- Brian Woodall, Georgia Institute of Technology;

75. Student-Author’d Paper Competition Finalists Session *To be organized after finalists are announced  
Saturday | 8:00 am-10:00 am | Mt Columbia

71. Regional Economic Issues  
Saturday | 8:00 am-10:00 am | Maroon’s Peak

Chair: Randall Jackson, West Virginia University

- Aspects of Income Inequality in a Creative Region. - Amit Batabyal, Rochester Institute of Technology
- Decomposing the Europe’s Great Recession: A Structural Decomposition Analysis of Southern European countries. - Joao Ferreira, University of Florida; Mengming Li, University of Florida; Christa Court, University of Florida
- Expanded Alcohol Retail in Rural and Urban Areas: A Colorado Case Study. - Nathan Palardy, Colorado State University; Marco Costanigro, Colorado State University; Jude Bayham, Colorado State University; Joshua Berning, Colorado State University
- Regional Accounting with Commodity by Industry Data. - Randall Jackson, West Virginia University; Péter Járosi, West Virginia University

Discussants:
• Amit Batabyal, Rochester Institute of Technology;
• João Ferreira, University of Florida;
• Nathan Palardy, Colorado State University;
• Randall Jackson, West Virginia University;

Coffee Break
Saturday | 10:00 am-10:30 am | Columbia Foyer

77. Regional/Rural Development IX: Entrepreneurship and Rural Economic Development
Saturday | 10:30 am-12:30 pm | Mt Oxford

Organizers: Sarah Low, University of Missouri; Stephan Weiler, Colorado State University;
Chair: Ignacio Correas, Colorado State University

• The Role of Personal Bankruptcy Protections on Entrepreneurship: Cushion v. Forgiveness......Ignacio Correas, Colorado State University; Stephan Weiler, Colorado State University
• Does Downtown Revitalization Enhance Entrepreneurship? Evidence from Firm Births in Rural Missouri......Andrew Van Leuven, University of Missouri - Columbia; Sarah Low, University of Missouri - Columbia; Alan Spell, University of Missouri - Columbia
• Students or Prisoners: Contrasting Approaches to Rural Economic Development......Katherine Chalmers, California State University - Sacramento; Walter Schwarm, California Department of Finance
• What Matters for Lagging Regions? The Role of Entrepreneurship and Industrial Diversity in Rural and Distressed Areas......Heather Stephens, West Virginia University; Zachary Keeler, Texas Tech University

Discussants:

• Andrew Van Leuven, University of Missouri - Columbia;
• Katherine Chalmers, California State University - Sacramento;
• Heather Stephens, West Virginia University;
• Ignacio Correas, Colorado State University;

78. Crime & Violence
Saturday | 10:30 am-12:30 pm | Mt Princeton

Chair: Amanda Ross, university of alabama
- *A Political-Economy Perspective on Mayoral Elections and Urban Crime*......Amit Batabyal, Rochester Institute of Technology; Hamid Beladi, University of Texas at San Antonio
- *To Be Blunt: The Impact of Marijuana Legalization on Crime Rates in California*......Gina Price, Ohio State University
- *Does variability in climate precipitate intimate partner violence in sub-Saharan Africa? Does this operate through water insecurity?*......Amanda Ross, University of Alabama; Amber Pearson, Michigan State University; Mack Elizabeth, Bank of Italy; Richard Marcantonio, University of Notre Dame; Andrew Zimmer, University of Arizona; Erin Bunting, Michigan State University; Audrey Culver Smith, University of Florida; Tom Evans, University of Arizona; Laura Miller-Graff, University of Notre Dame

**Discussants:**

- Gina Price, Ohio State University;
- Amanda Ross, University of Alabama;
- Amit Batabyal, Rochester Institute of Technology;


**Saturday | 10:30 am-12:30 pm | Mt Wilson**

**Chair:** Karima Kourtit, Open University

- *COVID19 State Level Lockdown Policies on Regional Economic Activities*......Seunghun Chung, Ohio State University; Elena Irwin, Ohio State University
- *Competitive or Complementary Destination Choices of Tourists in COVID-19 Pandemic: A Case Study of Las Vegas and its Surrounding Tourism Destinations*......Jaewon Lim, University of Nevada - Las Vegas; Karima Kourtit, Open University; Peter Nijkamp, Bank of Italy; Christopher Stream, University of Nevada - Las Vegas
- *CGE exploration of economic, environmental, and social changes to Hawaii Post-Covid 19*......Patrick Buckley, Western Washington University; Jason Levy, University of Hawaii - West Oahu

**Discussants:**

- Jaewon Lim, University of Nevada - Las Vegas;
- Patrick Buckley, Western Washington University;
- Seunghun Chung, Ohio State University;

**80. Student-Led Paper Competition Finalists Session** *To be organized after finalists are announced*

**Saturday | 10:30 am-12:30 pm | Mt Columbia**

**76. Regional Economy & Industries**

**Saturday | 10:30 am-12:30 pm | Maroon's Peak**
Chair: Theodore Panagiotidis, University of Macedonia

- Heterogenous Effects of Local Market Power Between Rural and Urban Veterinary Firms. Benjamin Blemings, Cornell University; Clinton Neill, Cornell University
- Shocks derived from mining windfalls and horizontal transfers: Exploring the permanent-income hypothesis in Chilean municipalities from a spatial competition approach. Mauricio Oyarzo, Universidad de Concepción; Dusan Paredes, Universidad Católica del Norte
- The Copper Price Super Cycle and its impact on the Chilean Regional Diversification. Patricio Aroca, Universidad Adolfo Ibáñez; Esteban López, Universidad Adolfo Ibáñez
- How Important is Tourism for Growth: A Panel Quantile Regression Approach. Theodore Panagiotidis, University of Macedonia; Maurizio Mussoni, University of Bologna; George Voucharas, University of Macedonia

Discussants:

- Mauricio Oyarzo, Universidad de Concepción;
- Patricio Aroca, Universidad Adolfo Ibáñez;
- Theodore Panagiotidis, University of Macedonia;
- Benjamin Blemings, Cornell University;

NARSC Award Luncheon
Saturday | 12:30 pm-2:30 pm | Aspen
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