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# 72<sup>ND</sup> North American Meetings of the Regional Science Association International

November 12-15, 2025

Denver, Colorado

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# Welcome to Denver and the 72<sup>nd</sup> NARSC Meetings

On behalf of the North American Regional Science Council (NARSC), I welcome you to the Annual North American Meetings of the Regional Science Association International (RSAI). We are returning to Denver, Colorado, for 2025, after our 2021 conference, which was also held at the same hotel. I will undoubtedly see many of you enjoying the 16<sup>th</sup> Street pedestrian mall during conference downtime and in LoDo in the evening for dinners! If you are interested in the history of the area, you might want to take a look at NARSC member Stephan Weiler's 2000 article about LoDo's urban redevelopment during the 1990s: [Pioneers and Settlers in Lo-Do Denver: Private Risk and Public Benefits in Urban Redevelopment](#).

The conference will officially kick off on Wednesday with the RSAI Fellows Lecture, given by Daoqin Tong of Arizona State University. Her talk on feeding water-stressed cities will be at 6:30 p.m., immediately followed by the Icebreaker Reception. Neil Reid, from the University of Toledo, will deliver the Presidential Address on Thursday evening. His talk, about the new geography of the American brewing industry, will be followed by the Welcome Reception, where you can sample the products of the industry. More information on all the plenary talks and sessions can be found in this program. The Awards Ceremony Luncheon is included in the cost of your registration; please be sure to attend on Friday at 12:30 p.m.

Two preconference workshops on Wednesday and 46 paper sessions, including multiple special sessions on Location and Spatial Analysis, Regional/Rural Development, Trade, Transportation, and Global Supply Chains, and Outreach in Regional Science, also contribute to the program.

Special thanks to Neil Reid, 2025 NARSC President and Program Chair, John Spring, NARSC Executive Director, and Brad Smith of MeetingSavvy for their efforts in planning and executing this conference, as well as for maintaining NARSC as an organization.

Please enjoy participating in the 72<sup>nd</sup> North American Meetings of the Regional Science Association International! I look forward to seeing you soon.

Sarah Low

NARSC Council Chair, on behalf of the North American Regional Science Council

# A Safe and Healthy Conference

NARSC is committed to making the 72<sup>nd</sup> North American Meetings of the Regional Science Association International a safe and healthy event for our attendees, industry partners, exhibitors, volunteers, and team members. It is important to note that large, in-person meetings are happening throughout the country, and they are happening safely. All conference attendees must agree to the Duty to Self-Monitor during the conference.

**IMPORTANT INFORMATION:** Considering ongoing concerns over COVID-19, individuals who fall within any of the categories below should not engage in any NARSC events or, if registered and fall into one of those categories prior to the conference, should request a refund. By attending the 72<sup>nd</sup> North American Meetings of the Regional Science Association International, you certify that you do not fall into any of the following categories and have complied with the following:

- Individuals who have tested positive for COVID-19 within the prior 10 days of the event or are currently showing COVID-19 symptoms.
- Individuals who, within the prior fourteen (14) days of the event, have experienced any symptoms associated with COVID-19, which include fever, cough, and shortness of breath among others.
- Individuals who believe that they may have been exposed to a confirmed or suspected case of COVID-19 or have been diagnosed with COVID-19 and are not yet cleared as non-contagious by state or local public health authorities or the health care team responsible for their treatment.

**DUTY TO SELF-MONITOR:** Attendees to any activity connected with the 72<sup>nd</sup> North American Meetings of the Regional Science Association International agree to self-monitor during the event for signs and symptoms of COVID-19 (symptoms typically include fever, cough, and shortness of breath) and immediately contact the AWS staff on-site should they test positive for COVID-19 or experiences symptoms of COVID-19.

**LIABILITY WAIVER AND RELEASE OF CLAIMS:** By attending the 72<sup>nd</sup> North American Meetings of the Regional Science Association International, you acknowledge that your decision to attend is personal and voluntary in nature, and in choosing to do so, recognize, assume all risks associated with attendance, including exposure to COVID-19

# 2025 Organizing and Program Committee

## **Local Arrangements**

- John Sporing, BEA, U.S. Department of Commerce (retired)

## **Program Chair**

- Neil Reid, University of Toledo

## **Session and Workshop Organizers**

- Sandy Dall Erba, University of Illinois
- Paul Jung, Hong Kong Polytechnic University
- Tim Komarek, Colorado State University
- Paul Lewin, University of Idaho
- Sarah Low, University of Illinois
- Marco Modica, Gran Sasso Science Institute
- Alan Murray, University of California at Santa Barbara
- Yasuhide Okuyama, University of Kitakyushu
- Sergio Rey, San Diego State University
- Heather Stephens, West Virginia University
- Nadeeka Weerasekara, University of Idaho
- Ran Wei, University of California, Riverside
- John Winters, Iowa State University
- Timothy Wojan, Oak Ridge Institute for Science and Education
- Emily Wornell, Ball State University



# NARSC Council Directory

## **Voting Members**

- Neil Reid, President, The University of Toledo
- Sarah Low, Chair, University of Illinois Urbana-Champaign
- Clio Andris, Councilor-at-Large, 2023-2025, Georgia Institute of Technology
- Christa Court, Councilor-at-Large, 2024-2026, University of Florida
- Eli Knapp, Councilor-at-Large, 2024-2026, San Diego State University
- Elizabeth Dobis, Councilor-at-Large, 2025-2027, USDA Economic Research Service
- Carlianne Patrick, Councilor-at-Large, 2025-2027, Georgia State University
- McKenzie Boyce, Student Representative, 2024-2026, University of Wisconsin-Madison
- Bruce Newbold, Canadian RSA, McMaster University
- Tessa Conroy, Mid-Continent RSA, University of Wisconsin-Madison
- Heather Stephens, Southern RSA, Regional Research Institute
- Andrew Van Leuven, Northeast RSA, University of Vermont
- Jaewon Lim, Western RSA, University of Nevada, Las Vegas

## **Ex-officio (Non-Voting) Members**

- John Sporing, NARSC Executive Director
- Ana Viñuela, RSAI Executive Director, University of Oviedo
- Rosella Nicolini, Editor-in-Chief, Papers in Regional Science, Universitat Autònoma de Barcelona
- Andrea Caragliu, Editor-in-Chief, Regional Science Policy & Practice, Politecnico di Milano
- Elizabeth A. Mack, Editor, Papers in Regional Science, Michigan State University
- Neil Reid, Editor, Regional Science Policy & Practice, The University of Toledo



# NARSC Graduate Student Paper Competition

## Committee Co-Chairs

- Christa Court, University of Florida
- Claudia Montaña Portillo, University of Arizona

## Reading Committee:

- Amitrajeet Batabyal, Rochester Institute of Technology, United States
- Alfredo Cartone, University of Chieti-Pescara, Italy
- Andrew Crawley, University of Maine, United States
- Oudom Hean, North Dakota State University, United States
- Rebecca Hill, Colorado State University, United States
- Yi Huang, Nanjing Audit University, China
- Anna Josephson, University of Arizona, United States
- Nathan Palardy, University of Florida, United States
- Dusan Paredes, Universidad Católica del Norte, Chile
- Sergio Rey, San Diego State University, United States
- Andrew Van Leuven, University of Vermont, United States

## Past and Future Conferences

Detroit, MI December 27–29, 1954  
New York, NY December 27–30, 1955  
Cleveland, OH December 27–29, 1956  
Philadelphia, PA December 28–30, 1957  
Chicago, IL December 27–29, 1958  
Washington, DC December 27–29, 1959  
St. Louis, MO December 28–30, 1960  
New York, NY December 27–29, 1961  
Pittsburgh, PA December 27–29, 1962  
Chicago, IL November 15–17, 1963  
Ann Arbor, MI November 13–16, 1964  
Philadelphia, PA November 12–14, 1965  
Clayton, MO November 4–6, 1966  
Cambridge, MA November 3–5, 1967  
Cambridge, MA November 8–10, 1968  
Santa Monica, CA November 7–9, 1969  
Philadelphia, PA November 6–8, 1970  
Ann Arbor, MI November 12–14, 1971  
Philadelphia, PA November 10–12, 1972  
Atlanta, GA November 9–11, 1973  
Chicago, IL November 8–10, 1974  
Cambridge, MA November 7–9, 1975  
Toronto, Ontario November 12–14, 1976  
Philadelphia, PA November 11–13, 1977  
Chicago, IL November 10–12, 1978  
Los Angeles, CA November 9–11, 1979  
Milwaukee, WI November 14–16, 1980  
Montreal, Quebec November 13–15, 1981  
Pittsburgh, PA November 12–14, 1982  
Chicago, IL November 11–13, 1983  
Denver, CO November 9–11, 1984  
Philadelphia, PA November 15–17, 1985  
Columbus, OH November 14–16, 1986  
Baltimore, MD November 6–8, 1987  
Toronto, Ontario November 11–13, 1988  
Santa Barbara, CA November 10–12, 1989  
Boston, MA November 9–11, 1990  
New Orleans, LA November 7–11, 1991  
Chicago, IL November 12–14, 1992  
Houston, TX November 11–14, 1993  
Niagara Falls, Ontario November 17–20, 1994  
Cincinnati, OH November 8–13, 1995  
Arlington, VA November 14–17, 1996  
Buffalo, NY November 5–9, 1997  
Santa Fe, NM November 11–14, 1998  
Montreal, Quebec November 11–14, 1999  
Chicago, IL November 9–11, 2000  
Charleston, SC November 15–17, 2001  
San Juan, PR November 14–17, 2002  
Philadelphia, PA November 20–23, 2003  
Seattle, WA November 11–13, 2004  
Las Vegas, NV November 10–12, 2005  
Toronto, Ontario November 15–19, 2006  
Savannah, GA November 7–11, 2007  
New York City, NY November 19–22, 2008  
San Francisco, CA November 19–21, 2009  
Denver, CO November 10–13, 2010  
Miami, FL November 9–12, 2011  
Ottawa, Canada November 7–10, 2012  
Atlanta, GA November 13–16, 2013  
Washington, DC November 12–15, 2014  
Portland, OR November 11–14, 2015  
Minneapolis, MN November 9–12, 2016  
Vancouver, Canada November 8–11, 2017  
San Antonio, TX November 7–10, 2018  
Pittsburgh, PA November 13–16, 2019  
Virtual Conference November 9–13, 2020  
Denver, CO November 10–13, 2021  
Montreal, QC November 9–12, 2022  
San Diego, CA November 15–18, 2023  
New Orleans, LA November 15–18, 2024  
Denver, CO November 11–14, 2025



# Instructions to NARSC Session Participants

- Please stick to the printed program schedule. Each session has a specific time slot assigned to presentations. If there is a no-show, use the time to discuss previous papers or take a break. Do not rearrange papers to fill gaps in the schedule, as attendees may have specific interests in particular papers.
- Each breakout room will be equipped with a projector. The Session Chair is responsible for bringing laptop computers to use by all session presenters. If you are a Session Chair and unable to bring a laptop, kindly communicate with other session participants to ensure that someone in the session brings a laptop. Please note that NARSC will not provide laptops for use in individual sessions.
- NARSC will have adapters for Apple products at the registration desk, but you must bring your projector adapter.
- Presenters should save presentations in both PowerPoint and PDF formats. Emailing a copy to themselves ensures a backup.
- Most sessions have 4 papers. Each paper should be given 30 minutes in total (20-minute presentation, 5-minute discussion, and 5-minute Q&As). If your session has 3 or 5 papers, make sure to distribute the time accordingly.
- Hold everyone to the time allotted. If a speaker continues after time has expired, rise, ask those present to join you in thanking the speaker, and announce the next presentation. The audience and other speakers will support your decision.
- Please be considerate of the next session by ensuring your session is completed at the appropriate time, and the meeting room is vacated in time for the next session.

- Each paper is assigned a discussant to review and offer constructive comments on the paper. There is one discussant for each paper. The discussants for each session are listed in the program in sequential order. The first discussant listed is responsible for discussing the first paper presented; the second discussant listed is responsible for discussing the second paper presented, etc. Some sessions may have allocated their discussants differently.
- The discussant should come prepared to provide approximately 5 minutes of discussion of the paper. Possible speaking points include its merits and questions' regarding methods, data, or findings – a summary of the paper is neither expected nor appropriate. As a presenter, we ask that you share your paper (or slides) with your discussant as early as possible so that the discussant has sufficient time to review it.

# Conference Highlights and Business Meetings

## Wednesday, November 12

### Workshops

- Spatial Data Analysis and Econometrics with PySAL  
8:00 am-5:00 pm | Mt, Harvard (Registration required)
- Rural Livability Preconference Workshop  
10:00 am-4:00 pm | Mt. Princeton

### NARSC Plenary: RSAI Fellows Lecture

- Feeding Water-Stressed Cities: Optimizing Alternative Water Systems for Urban Agriculture, Daoqin Tong, Arizona State University  
6:30pm-7:30pm| Colorado A

### Icebreaker Reception

- 8:00 pm-9:00 pm | Colorado B

## Thursday, November 13

### Regular sessions

- 8:00 am-6:15 pm

### Business meeting

- NARSC Council Meeting (Invitation only)  
8:00 am-10:00 am | Mt. Harvard

- RSA Long Range Planning Committee Meeting (Invitation only)  
10:30 am-12:30 pm | Mt. Harvard

**NARSC Plenary: Presidential Address**

- Rebels, Renegades, and Revolutionaries: The New Geography of the American Brewing Industry, Neil Reid, The University of Toledo

6:15pm – 7:30pm | Colorado B

**Welcome Reception**

- 7:30 pm-8:30 pm | Colorado B

**Friday, November 14**

**Regular sessions**

- 8:00 am-6:15 pm

**Business Meeting**

SRSA Council Meeting [Invitation Only]  
8:00 am-10:00 am | Mt. Harvard

RSAI Council Meeting [Invitation only]  
10:00 am-12:00 pm | Mt. Harvard

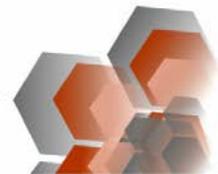
**Lunch and award ceremony (open to all)**

- 12:30 pm-1:45 pm | Colorado B

**Saturday, November 16**

**Regular sessions**

8:00 am-3:45 pm



## RSAI Fellows Lecture

### **Feeding Water-Stressed Cities:**

### **Optimizing Alternative Water Systems for Urban Agriculture**

**Wednesday, November 12, 6:30-7:30pm, Colorado B**



**Speaker - Daoqin Tong, Arizona State University**

**Chair – Amit Batabyal, RIT**



**North American Regional Science Council**

Promoting Regional Science in Canada and the United States

**NARSC Presidential Lecture**

**Rebels, Renegades, and Revolutionaries:**

**The New Geography of the American Brewing Industry**

**Thursday, November 13, 6:15-7:30pm**



**Speaker - Neil Reid, The University of Toledo**

**Chair - Geoffrey J.D. Hewings, University of Illinois - Urbana-Champaign**

# Conference Program

## Wednesday

**NARSC Office [Informal meeting]**

Wednesday | 8:00 am-5:00 pm | Summit Peak

**1. Spatial Data Analysis and Econometrics with PySAL [Workshop]**

Wednesday | 8:00 am-5:00 pm | Mt. Harvard

**Registration**

Wednesday | 8:00 am-5:00 pm | Third Floor Foyer

**2. Rural Livability Preconference Workshop [Workshop]**

Wednesday | 10:00 am-4:00 pm | Mt. Princeton

**3. The New Wellbeing Society: A Spatial Perspective [Special Session]**

Wednesday | 1:30 pm-3:30 pm | Mt. Yale

**Organizers:** Peter Nijkamp, Rijeka University, Rijeka, Croatia; Karima Kourtit, Open University of The Netherlands,;

**Chair:** Kingsley Haynes, George Mason University

- *Regional Development, Spatial Disparities, and Socio-Economic Wellbeing.* [Peter Nijkamp, Rijeka University, Rijeka, Croatia](#)
- *The Blessing in Disguise Hypothesis: Do Disasters Create Higher Wellbeing?.*
- *Third Places and Human Happiness.* [Neil Reid, University of Toledo](#)
- *The City is a Village: A Wellbeing Perspective.* [Karima Kourtit, Open University of The Netherlands,](#)

**4. The Regional Science Manifesto on Climate Change and the New Wellbeing Society [Panel]**

Wednesday | 3:30 pm-4:30 pm | Mt. Yale

**Organizers:** Peter Nijkamp, Rijeka University, Rijeka, Croatia; Karima Kourtit, Open University of The Netherlands,;

**Chairs:** Peter Nijkamp, Rijeka University, Rijeka, Croatia; Karima Kourtit, Open University of The Netherlands,;

**Panelists:**

- Marcelo Bentes Diniz, Federal University of Para
- Martijn Burger, Erasmus University Rotterdam
- Catherine Gall, Panthéon-Sorbonne University

- Karima Kourtit, Open University of The Netherlands,
- Paul Krugman, Princeton University
- Carlos Moreno, Panthéon-Sorbonne University
- Peter Nijkamp, Rijeka University, Rijeka, Croatia
- Márcia Jucá Teixeira Diniz, Federal University of Para
- Robin Wells, Princeton University

**5. NARSC Plenary. RSAI Fellows Lecture [Plenary]**

**Wednesday | 6:30 pm-7:30 pm | Colorado A**

**Chair:** Amit Batabyal, RIT

- *Feeding Water-Stressed Cities: Optimizing Alternative Water Systems for Urban Agriculture.* Daoqin Tong, Arizona State University

**6. Icebreaker Reception [Reception]**

**Wednesday | 8:00 pm-9:00 pm | Colorado B**

## Thursday

### 7. Rural Economies [Formal Paper Session]

Thursday | 8:00 am-10:00 am | Maroon Peak

**Chair:** Austin Sanders, USDA ERS

- *What does "rural" mean in 2025 for the US, where spot-urbanism can be made to happen anywhere? Regional Geographies can help: State and County, Metro and Non-Metro, and now a recognition of the Sub-State District, as the 1950s Cold War Civil Defense Dispersion of Industry and population continues, with total Incorporated Places stagnating and total CDPs expanding..* Thomas Christoffel, Regional Intelligence-Regional Communities, LLC
- *Regional economic isolation: Using network theory to characterize economic and geographic isolation.* Clayton Adamson, University of Wisconsin-Madison, Katherine J. Curtis, University of Wisconsin - Madison, Anton Babkin, University of Wisconsin - Madison, Richard Dunn, USDA Economic Research Service
- *Demand Thresholds and Rural Prosperity.* J. Matthew Fannin, LSU, Euijun Kim, Louisiana State University
- *Rural Agglomeration: Using a county-level measure of population distribution to capture own-market effects on rural establishment demand thresholds.* Austin Sanders, USDA ERS

**Discussants:**

- Austin Sanders, USDA ERS
- Thomas Christoffel, Regional Intelligence-Regional Communities, LLC
- Clayton Adamson, University of Wisconsin-Madison
- J. Matthew Fannin, LSU

### 8. Health and Wellness I [Formal Paper Session]

Thursday | 8:00 am-10:00 am | Mt. Columbia

**Chair:** Josiah Cruikshank, Oklahoma State University

- *Urban mental health under climate stress: Heat vulnerability and social cohesion in South Korea.* Hyun Kim, University of Tennessee
- *Built Environment, Outdoor Physical Activity, and Depression among Older Adults: Evidence from India.* Sandip Chakrabarti, Indian Institute of Management Ahmedabad, Jayanth Kumar Narsim, Indian Institute of Management Ahmedabad
- *Perceptions of Medical Marijuana in Rural Oklahoma Communities.* Josiah Cruikshank, Oklahoma State University, Brian Whitacre, Oklahoma State University, Rachel Schmitz, Oklahoma State University, Scarlett Kingsley, Oklahoma State University

**Discussants:**

- Josiah Cruikshank, Oklahoma State University
- Hyun Kim, University of Tennessee
- Sandip Chakrabarti, Indian Institute of Management Ahmedabad

**9. Pathways In and Out of Poverty: Traps, Employment, and the Role of Safety Nets [Formal Paper Session]**

**Thursday | 8:00 am-10:00 am | Mt. Oxford**

**Organizers:** Paul Lewin, University of Idaho; Nadeeka Weerasekara, University of Idaho;

**Chairs:** Paul Lewin, University of Idaho; Emily Wornell, Ball State University;

- *Leaving Scylla to meet Charybdis? Choosing entrepreneurship over salaried work when in poverty.* Nastasya WINCKEL, Western Rural Development Center
- *Do Safety Nets Resolve Poverty in the United States?.* Nadeeka Weerasekara, University of Idaho, Paul Lewin, University of Idaho
- *Trapped or Moving Up? The Dynamics of Poverty in the United States.* Paul Lewin, University of Idaho, Nadeeka Weerasekara, University of Idaho
- *Motivations for nonstandard work in rural America.* Emily Wornell, Ball State University, Jean Bohaczek, Michigan State University, Amanda McMillian Lequieu, Drexel University, Ellen Whitehead, Ball State University, Justin Schupp, Wheaton College

**10. Tourism [Formal Paper Session]**

**Thursday | 8:00 am-10:00 am | Mt. Princeton**

**Chair:** Daeyoung Kwon, University of Nevada - Las Vegas

- *Road transport accessibility and regional demand for tourism services.* Bartlomiej Rokicki, University of Warsaw, Slawomir Goliszek, Polish Academy of Sciences
- *When a Starbucks Drive-Through Arrives in the Town: Impact of Starbucks Openings on Urban Congestion in Urban South Korea.* Paul Jung, Hong Kong Polytechnic University, Sanghyeok Kang, Korea University, Seungmo Kang, Korea University
- *Strategic Shifts: The Economic Impact of Las Vegas's Mega-Event-Driven Tourism Diversification.* Daeyoung Kwon, University of Nevada - Las Vegas, Jaewon Lim, University of Nevada, Las Vegas (UNLV)

**Discussants:**

- Daeyoung Kwon, University of Nevada - Las Vegas
- Bartlomiej Rokicki, University of Warsaw
- Paul Jung, Hong Kong Polytechnic University

**11. Economic Development Policy [Formal Paper Session]**

**Thursday | 8:00 am-10:00 am | Mt. Wilson**

**Chair:** Tidiane Ly, Syracuse University

- *Who Benefits from Place-Based Policies? Evidence from Matched Employer-Employee Data.* Philipp Grunau, IAB Institute for Employment Research, Florian Hoffmann, University of British Columbia, Thomas Lemieux, University of British Columbia, Mirko Titze, Halle Institute for Economic Research (IWH) - Member of the Leibniz Association
- *Do Protected Areas Foster Local Development? Evidence from Italy's Inner Areas.* Carmela Ciccarelli, Università della Calabria (Unical), Luigi Mastronardi, Università del Molise
- *Evaluating the Impact of the USDA Business and Industry Program on Rural Business Growth: Evidence from Matching and Staggered Difference-in-Difference Analysis.* Zheng Tian, Pennsylvania State University, Anil Rupasingha, USDA-ERS, James Davis, Economic Research Service, Robert Dinterman, USDA, Stephan Goetz, Pennsylvania State University
- *Policy Competition in a Spatial Economy.* David Agrawal, University of California - Irvine, Tidiane Ly, Syracuse University, Raphaël Parchet, Università della Svizzera Italiana

**Discussants:**

- Tidiane Ly, Syracuse University
- Mirko Titze, Halle Institute for Economic Research (IWH) - Member of the Leibniz Association
- Carmela Ciccarelli, Università della Calabria (Unical)
- Zheng Tian, Pennsylvania State University

## **12. Land Use [Formal Paper Session]**

**Thursday | 8:00 am-10:00 am | Mt. Yale**

**Chair:** Shirin Qiam, University of Illinois Urbana Champaign

- *Infrastructure-Driven Land Transformation: Causal Effects of Road Construction and Policy Implications.* xinyue wang, People`s University of China, Wei Chen, Renmin University of China
- *Has Land Use Efficiency Improved under China's Land Quota Trading Program? A Pre-Post Analysis Based on Remote-Sensing and Quasi-experimental Studies.* Xin Li, City University of Hong Kong, Guohao Zhu, City University of Hong Kong, Kyung-Min Nam, The University of Hong Kong
- *The Impact of Compact City Policies on Land Prices: The Case of Toyama City.* Hiroataka Fujioka, Doshisha University, Tohru Naito, Doshisha University
- *The Spatial Logic of Parking: A Data-Driven Analysis Across 15 U.S. Cities.* Shirin Qiam, University of Illinois Urbana Champaign, Lewis J. Lehe, University of Illinois - Urbana-Champaign

**Discussants:**

- Shirin Qiam, University of Illinois Urbana Champaign
- xinyue wang, People`s University of China
- Kyung-Min Nam, The University of Hong Kong
- Hirotaka Fujioka, Doshisha University

**13. NARSC Council Meeting [Business Meeting]**

Thursday | 8:00 am-10:00 am | Mt. Harvard

NARSC Office [Informal meeting]

Thursday | 8:00 am-5:00 pm | Summit Peak

Registration

Thursday | 8:00 am-5:00 pm | Third Floor Foyer

Coffee Break [Break]

Thursday | 10:00 am-10:30 am | Coffee Break Area

**14. Trade, Transportation, and Global Supply Chains: Spatial Perspectives I [Formal Paper Session]**

Thursday | 10:30 am-12:30 pm | Maroon Peak

**Organizers:** Paul Jung, Hong Kong Polytechnic University; Sandy Dall Erba, University of Illinois; Marco Modica, Gran Sasso Science Institute;

**Chairs:** Marco Modica, Gran Sasso Science Institute; Hyungsun Yim, University of Illinois - Urbana-Champaign;

- *Mitigation of road disruption impacts by redundant highway networks.* Tomoki Ishikura, Tokyo Metropolitan University
- *The Ripple Effects of Drought: How Climate Change is Transforming Brazil's Wheat Production, Imports and Food Security.* Sandy Dall Erba, University of Illinois, Andre LS Chagas, University of Sao Paulo
- *Understanding the Impact of Future Climate Conditions on Agricultural Production.* Hyungsun Yim, University of Illinois - Urbana-Champaign, Sandy Dall Erba, University of Illinois
- *What Drives South Korea's Trade Volume? Gravity, Migration, and Beyond.* Jinhwan Oh, Ewha Womans University, Jimin Yang, Ewha Womans University

**Discussants:**

- Tatsuyoshi MIYAKOSHI, Gifu Shotoku-Gakuen University
- Jinhwan Oh, Ewha Womans University
- Linlin Fan, Pennsylvania State University
- Tomoki Ishikura, Tokyo Metropolitan University

**15. Issues in Regional Science [Formal Paper Session]**

Thursday | 10:30 am-12:30 pm | Mt. Columbia

**Chair:** Jae Teuk Chin, University of Seoul

- *Spatial Dynamics of Minimum Qualifying Yield and Productivity in India's Legal Opium Farming.* Olivier Parent, University of Cincinnati, Sachin Sisodiya, University of Cincinnati
- *Engaging Public in Spatial Decisions through Digital Platforms.* Ivana Marjanovic, University of Niš Faculty of Economics, Jelena Stanković, University of Niš Faculty of Economics, Branko Krsmanović, City and Me, Aleksandar Stamenković, City and Me, Marina Stanojević, University of Niš Faculty of Economics
- *Inequality in Population Density in the United States.* Peter Rogerson, Arizona State University, Zhangyu Wang, University of Maine
- *Staying Put or Stuck in Place? Understanding Geographic (Im)Mobility Across America.* katherine asmussen, University of Tennessee Knoxville, Marcella Kaplan, University of Tennessee, Knoxville
- *Mapping Urban AI Readiness through Platform Indicators of Algorithmic Governance.* Jae Teuk Chin, University of Seoul

**Discussants:**

- Jae Teuk Chin, University of Seoul
- Sachin Sisodiya, University of Cincinnati
- Ivana Marjanovic, University of Niš Faculty of Economics
- Peter Rogerson, Arizona State University
- katherine asmussen, University of Tennessee Knoxville

## **16. Regional Economic Effects of Disasters 1 [Formal Paper Session]**

**Thursday | 10:30 am-12:30 pm | Mt. Oxford**

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

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

- *Post-pandemic Business and Economic Recovery: Evidence from business surveys in metropolitan areas of seven countries.* Yoshio Kajitani, Kagawa University, Maria Watson, University of Florida, Stephanie Chang, University of British Columbia, Elsamari Botha, University of Canterbury, Marleen de Rooter, Vrije Universiteit Amsterdam, Sanna Malinen, University of Canterbury, Bernard Walker, University of Canterbury, Charlotte Brown, Resilient Organisations, Sophie Buijs, Vrije Universiteit Amsterdam, Sahar Derakhshan, California Polytechnic State University - Pomona, Jennifer Helgeson, National Institute of Standards and Technology, Juri Kim, University of British Columbia, Siriporn Darnkachatarn, Kagawa University, Emma Steel, University of Canterbury

- *Macroeconomic Impacts of Trade Cessations between the United States, China, and Taiwan.* Adam Rose, University of Southern California, Misak Avetisyan, Texas Tech University, Juan Machado, USC

**Discussants:**

- Adam Rose, University of Southern California
- Miguel Angel Gavilan Rubio, European Stability Mechanism

**17. Open Source in Regional Science (I) [Formal Paper Session]**

**Thursday | 10:30 am-12:30 pm | Mt. Wilson**

**Organizer:** Sergio Rey, San Diego State University

**Chairs:** Wei Kang, University of California Riverside; Luc Anselin, University of Chicago;

- *Robust and Performant Estimation of Generalized Additive Spatial Smoothing (GASS).* Mengyu Liao, university of maryland college park, Taylor Oshan, University of Maryland - College Park
- *The Geography of Division: A Statistical Tour of Polarization.* Trevor Tibbetts, San Diego State University, Sergio Rey, San Diego State University
- *Zoning and Segregation: The Roles of Spatial Scale and Metropolitan Fragmentation.* Elijah Knaap, University of California - Irvine
- *Exploring Gentrification: Insights from a Comparative Analysis of Measures.* Jin Huang, san diego state univeristy, Sergio Rey, San Diego State University
- *The reach of PySAL, a bibliometric analysis.* Luc Anselin, University of Chicago, Zhuyin Li, The University of Chicago

**18. Regional/Rural Development I: Weiler Award Finalists [Special Session]**

**Thursday | 10:30 am-12:30 pm | Mt. Yale**

**Organizers:** Sarah Low, University of Illinois; Tim Komarek, Colorado State University;

- *Powering Rural Prosperity: The Local Economic Impact of Renewable Wind and Solar.* Austin Landini, University of Missouri, Mike Sykuta, University of Missouri, Adrienne Ohler, University of Missouri
- *Long Term Effects of Large Wildfires on Tourism Spending in Colorado.* Thomas Gifford, Colorado State University, Edward Barbier, Colorado State University
- *Mapping Migration: The Impact of Amenities on Household Relocation.* Mckenzie Boyce, University of Wisconsin - Madison

**19. RSAI Long Range Planning Committee Meeting**

**Thursday | 10:30 am-12:30 pm | Mt. Harvard**

**Organizer:** Ana Vinuela, University of Oviedo

**20. Housing I [Formal Paper Session]**

**Thursday | 1:45 pm-3:45 pm | Maroon Peak**

**Chair:** Youngeun Park, Seoul National University

- *Trendy or troublesome? TikTok queues and house prices.* Rosa van der Drift, Delft University of Technology
- *The Effects of Public Investments Funded by the Community Development Group Block Grant on Residential Property Values: Evidence from Cuyahoga County, Ohio.* Valencia Prentice, Cleveland State University, Xiaozhou Ding, South Dakota State University
- *Informed or Ignorant? Analyzing the Decision to Price a Home Above the Market Expectation.* Mitchell Livy, California State University, Fullerton, Nicholas Irwin, University of Nevada - Las Vegas
- *The Impacts of Homeownership Policies on Housing Entry and Retention across Income Groups during a Housing Market Downturn : A Case Study of Seoul, South Korea.* Youngeun Park, Seoul National University, Jaemin Song, Seoul National University

**Discussants:**

- Youngeun Park, Seoul National University
- Rosa van der Drift, Delft University of Technology
- Xiaozhou Ding, South Dakota State University
- Mitchell Livy, California State University, Fullerton

## **21. Public Goods [Formal Paper Session]**

**Thursday | 1:45 pm-3:45 pm | Mt. Columbia**

**Chair:** Heejin Kim, Michigan State University

- *Public Transfers and Local Distributions: Evidence from a Distributional Regression Discontinuity Design.* Vinicius Cicero, Colorado State University
- *Rural Livability: What's in the Air?.* Yang Cheng, UW-Madison, Tessa Conroy, University of Wisconsin-Madison/Extension, Steve Deller, University of Wisconsin - Madison
- *Population Aging and Regional Variation in Economic Growth Across U.S. Counties.* Yuulin An, Colorado State University, Tim Komarek, Colorado State University, Ray Miller, Colorado State University
- *Nurse Practitioner Training and Local Supply of Medical Providers.* Anja Gruber, University of Wyoming, Anders Van Sandt, Colorado State University, Scott Loveridge, Michigan State University, Craig Carpenter, Michigan State University, Cris Meier, Utah State University
- *The Long-Run Impact of Local College Access: How Colleges Shaped American Communities.* Heejin Kim, Michigan State University, John Anders, Trinity

University, Craig Carpenter, Michigan State University, Marcus Bernard, Kentucky State University, Trey Malone, Purdue University

**Discussants:**

- Heejin Kim, Michigan State University
- Vinicius Cicero, Colorado State University
- Yang Cheng, UW-Madison
- Yuulin An, Colorado State University
- Anja Gruber, University of Wyoming

**22. Regional Economic Effects of Disasters 2 [Formal Paper Session]  
Thursday | 1:45 pm-3:45 pm | Mt. Oxford**

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

**Chairs:** Yasuhide Okuyama, University of Kitakyushu; Yasuhide Okuyama, University of Kitakyushu;

- *Impacts of severe natural disasters on baby food demand: a Bayesian and Spatial econometric analysis of US baby food market during Harvey and Michael hurricanes..* Thuy Nguyen, Texas A&M University
- *The "Optimal" Geographical Distribution of Population/Industries under Disaster Risks: Applying Portfolio Theory.* Kiyoshi Yonemoto, Takasaki City University of Economics
- *Infrastructure and Energy Perspectives on Regional Recovery in Japan: A Dynamic Input-Output Analysis of Large-Scale Disasters.* Hiroyuki Shibusawa, Toyohashi University of Technology, Daiki TOGASHI, Toyohashi University of Technology, Mingji CUI, Toyohashi University of Technology
- *Structural changes in a regional economy due to reconstruction activities after a disaster.* Yasuhide Okuyama, University of Kitakyushu

**Discussants:**

- Kiyoshi Yonemoto, Takasaki City University of Economics
- Hiroyuki Shibusawa, Toyohashi University of Technology
- Yasuhide Okuyama, University of Kitakyushu
- Thuy Nguyen, Texas A&M University

**23. Outreach in Regional Science I [Formal Paper Session]  
Thursday | 1:45 pm-3:45 pm | Mt. Princeton**

**Organizers:** Heather Stephens, West Virginia University; John Winters, Iowa State University; Emily Wornell, Ball State University;

**Chair:** Amanda Weinstein, Center on Rural Innovation

- *Coverage in Crisis: Homeowners Insurance Dynamics and Hazards across Colorado.* Caroline Norris, Colorado State University, Dawn Thilmany, Colorado State University
- *Building Inclusive Entrepreneurial Ecosystems: Supporting Women and Minority Entrepreneurs in Rural Regions.* Heather Stephens, West Virginia University, Xiaoyin Li, West Virginia University, Jason Entsminger, University of Maine, Daniel Eades, West Virginia University
- *Rural America's Struggle to Access Private Capital.* Amanda Weinstein, Center on Rural Innovation, Adam Dewbury, Center on Rural Innovation
- *Human Capital in the Heartland.* John Winters, Iowa State University

**Discussants:**

- Mckenzie Boyce, University of Wisconsin - Madison
- Amanda Weinstein, Center on Rural Innovation
- Caroline Norris, Colorado State University
- David Nason, Florida Gulf Coast University

**24. Open Source in Regional Science (II) [Formal Paper Session]  
Thursday | 1:45 pm-3:45 pm | Mt. Wilson**

**Organizer:** Sergio Rey, San Diego State University

**Chairs:** Elijah Knaap, University of California - Irvine; Wei Kang, University of California Riverside;

- *Economic Impact of Transitioning from Annual to Perennial Wheat : Regional Input Output Analysis in Salina, Kansas River Basin.* Sergio Rey, San Diego State University, Kwasi Asomani, San Diego State University
- *On the distribution of a spatial polarization index.* Sergio Rey, San Diego State University
- *The Geography of History.* Carli Henderson, California State University, Sergio Rey, San Diego State University
- *Unpacking Spatial Dependence: A Variance-Stabilized Approach to Spatial Autoregressive Simulations.* Wei Kang, University of California Riverside, Levi Wolf, University of Bristol

**25. Regional/Rural Development II: Developing Indexes and Classifications [Special Session]  
Thursday | 1:45 pm-3:45 pm | Mt. Yale**

**Organizers:** Sarah Low, University of Illinois; Tim Komarek, Colorado State University;

**Chair:** Elizabeth Dobis, USDA Economic Research Service

- *Former Farms, Future Farming: Quantifying, classifying, and assessing agricultural land loss in the post-Farm Crisis era using remote sensing and administrative data.* Danielle Schmidt, University of Wisconsin-Madison
- *Building a Business Resiliency Index to Estimate the Impacts of Disasters on Firms.* John Anders, Trinity University, Craig Carpenter, Michigan State University
- *Exploring the New Integrated Metropolitan-to-Frontier Area Codes.* Elizabeth Dobis, USDA Economic Research Service, John Cromartie, USDA Economic Research Service, Brody Gibson, University of Utah, Laurie Grieshober, University of Utah, Tracy Onega, University of Utah, Cornelia Ulrich, Utah State University, Jennifer Doherty, University of Utah

**Discussants:**

- Elizabeth Dobis, USDA Economic Research Service
- Danielle Schmidt, University of Wisconsin-Madison
- Craig Carpenter, Michigan State University

**Coffee Break [Break]**

Thursday | 3:45 pm-4:15 pm | Coffee Break Area

**26. Housing II [Formal Paper Session]**

Thursday | 4:15 pm-6:15 pm | Maroon Peak

**Chair:** Kyoungwon Cha, Seoul National University

- *Land values can be estimated more accurately than property values in parameter recovery simulations.* Russell Richie, University of Pennsylvania
- *The Effects of Flood Risk Mandatory Disclosure on Housing Markets.* Ikuto Aiba, The University of Tokyo, Daisuke Hasegawa, University of Tokyo, Hiroaki Shirai, University of Tokyo
- *No vacancy, no problem? Understanding the role of occupancy in housing transactions.* Mitchell Livy, California State University, Fullerton, Nicholas Irwin, University of Nevada - Las Vegas
- *The Dual Impacts of Public Rental Housing for Young Adults in Seoul: Individual Mobility and Neighborhood Vitality.* Kyoungwon Cha, Seoul National University, In Kwon Park, Seoul National University

**Discussants:**

- Kyoungwon Cha, Seoul National University
- Russell Richie, University of Pennsylvania
- Ikuto Aiba, The University of Tokyo
- Mitchell Livy, California State University, Fullerton

**27. Migrants and the Economy [Formal Paper Session]**

Thursday | 4:15 pm-6:15 pm | Mt. Columbia

**Chair:** Zuzana Bednarik, North Central Regional Center for Rural Development

- *A Synthetic Control Approach to Operation Lone Star Migrants and Labor Market Adaptation in Denver.* Micaela Sabbi, Colorado State University, Anita Pena, Colorado State University, Tim Komarek, Colorado State University, Ray Miller, Colorado State University
- *Ageing, human capital and growth: a regional analysis.* Alberto Bucci, Università degli Studi di Milano, Rosella Nicolini, Universitat Autònoma de Barcelona, Pedro Trivín García, Università degli Studi di Milano
- *Remittances and family self-investment in human capital of participants in the PTAT in the State of Mexico.* Lidia Carvajal, Universidad Autónoma del Estado de México
- *The Role of Self-Employed Migrants in Rural Job Creation: Evidence from Three U.S. Regions.* Zuzana Bednarik, North Central Regional Center for Rural Development

**Discussants:**

- Zuzana Bednarik, North Central Regional Center for Rural Development
- Micaela Sabbi, Colorado State University
- Rosella Nicolini, Universitat Autònoma de Barcelona
- Lidia Carvajal, Universidad Autónoma del Estado de México

## **28. Pollution [Formal Paper Session]**

**Thursday | 4:15 pm-6:15 pm | Mt. Oxford**

**Chair:** Roberto Koeneke, University of Florida

- *Tanneries in Kanpur, India, Water Pollution in the Ganges, and Unitization.* Amit Batabyal, RIT
- *An Ecological-Economic Approach to Air Pollution Regulation in New Delhi, India.* Amit Batabyal, RIT
- *Spatial Governance and Sustainable Transformation of Paradigm Shifts in High-Pollution Industry Relocation: A Case Study of YK Group in Chongqing, Mainland China.* Chi-Tung Hung, Ming Chuan University, CHUN FANG LIU, Ming Chuan University
- *Compound water quality hazards: Economic valuation of concurrent harmful algal bloom events in Southwest Florida.* Roberto Koeneke, University of Florida, Christa Court, University of Florida, Xinde “James” Ji, University of Florida, Weizhe Weng, University of Florida

**Discussants:**

- Roberto Koeneke, University of Florida
- Amit Batabyal, RIT
- Amit Batabyal, RIT

- Chi-Tung Hung, Ming Chuan University

## 29. Education [Formal Paper Session]

Thursday | 4:15 pm-6:15 pm | Mt. Princeton

**Chair:** Nikhil Jha, St Joseph's University

- *Infrastructure and Education Outcomes: An Empirical Exploration.* Nikhil Jha, St Joseph's University, Pradeep Arya, other
- *Polluted Learning: The Long-Term Educational Effects of East Germany's Fossil Fuel Crisis.* Matthias Brachert, Halle Institute for Economic Research
- *Cumulative Effects of School-Based Physical Activity on Cognitive and Non-Cognitive Skill Formation.* Samia Islam, Boise State University, Kelly Chen, Boise State University

**Discussants:**

- Samia Islam, Boise State University
- Nikhil Jha, St Joseph's University
- Matthias Brachert, Halle Institute for Economic Research

## 30. Tax Policy and Tourism [Formal Paper Session]

Thursday | 4:15 pm-6:15 pm | Mt. Wilson

**Chair:** Soomi Lee, University of La Verne

- *Unanticipated Property Tax Shocks, Tax Delinquency, and the Role of Conventional Mortgages.* Timothy Hodge, Oakland University, Fernanda Alfaro-Gonzalez, michigan state university, Jacob Shepard, Arizona State University
- *The push-and-pull of property tax relief: Who pays for exemptions and incentives?.* Joshua Drucker, University of Illinois at Chicago, Rachel Weber, Harvard University, Michael Van Hulle, University of Illinois - Chicago, Alea Wilbur-Mujtaba, University of Illinois - Chicago
- *Lock-In Effects and Local Governance: Simulating the Welfare Impact of Property Tax Caps.* Soomi Lee, University of La Verne, Yuri Mansury, Illinois Institute of Technology
- *Stakeholders' involvement in planning and developing tourism transport: Roles, needs, and participation of residents and visitors.* Jaewon Lim, University of Nevada, Las Vegas (UNLV), Karima Kourtit, Open University of The Netherlands,, Peter Nijkamp, Rijeka University, Rijeka, Croatia

**Discussants:**

- Soomi Lee, University of La Verne
- Fernanda Alfaro-Gonzalez, michigan state university
- Joshua Drucker, University of Illinois at Chicago

**31. Regional/Rural Development III: Economic Development [Special Session]**  
**Thursday | 4:15 pm-6:15 pm | Mt. Yale**

**Organizers:** Sarah Low, University of Illinois; Tim Komarek, Colorado State University;  
**Chair:** Gregory Totten, Colorado State Demography Office

- *Electoral Accountability After Regional Economic Shocks: Evidence from Mayoral Elections in Brazil.* Vinicius Cicero, Colorado State University, Ismin Goes, Colorado State University
- *Brownfield Remediation and Local Economic Development: Evidence from Colorado.* Shanshan Fu, Colorado State University, Tim Komarek, Colorado State University
- *The Effects of the Uniform Partition of Heirs Property Act on Residential Mobility and Agricultural Engagement.* Heejin Kim, Michigan State University, Craig Carpenter, Michigan State University, John Anders, Trinity University, Marcus Bernard, Kentucky State University, Trey Malone, Purdue University
- *Feeling the Squeeze: Looking For Lemons in the Market for Used Banks.* Gregory Totten, Colorado State Demography Office

**Discussants:**

- Gregory Totten, Colorado State Demography Office
- Vinicius Cicero, Colorado State University
- Shanshan Fu, Colorado State University
- Heejin Kim, Michigan State University

**32. NARSC Presidential Address [Plenary]**  
**Thursday | 6:15 pm-7:30 pm | Colorado B**

**Chair:** Geoffrey J.D. Hewings, University of Illinois - Urbana-Champaign

- *“Rebels, Renegades, and Revolutionaries: The New Geography of the American Brewing Industry”*, Neil Reid, University of Toledo.

**33. Welcome Reception [Reception]**  
**Thursday | 7:30 pm-8:30 pm | Colorado B**

## Friday

### 34. The Regional Dimensions of Climate Change Mitigation [Formal Paper Session] Friday | 8:00 am-10:00 am | Maroon Peak

**Organizer:** Timothy Wojan, National Science Foundation

**Chairs:** Stephan Goetz, Pennsylvania State University; Luyi Han, Penn State University;

- *Open Space and the Development and Adoption of Onsite Renewable Energy.* Timothy Wojan, National Science Foundation, Minsu Kim, Pennsylvania State University, Zheng Tian, Pennsylvania State University, Stephan Goetz, Pennsylvania State University
- *Location Patterns of U.S. Microgrid Deployment Driven by Energy Sources.* Zheng Tian, Pennsylvania State University, Timothy Wojan, National Science Foundation, Yan Li, Pennsylvania State University, Stephan Goetz, Pennsylvania State University
- *Carbon Performance and Location: The Relationship Between Open Space and Industrial Disamenities.* Minsu Kim, Pennsylvania State University, Zheng Tian, Pennsylvania State University, Timothy Wojan, National Science Foundation, Stephan Goetz, Pennsylvania State University
- *The impact of energy price shocks on US local industries.* Minsu Kim, Pennsylvania State University, Stephan Goetz, Pennsylvania State University

**Discussants:**

- Andre Fernandes Tomon Avelino, National Renewable Energy Laboratory
- Sandy Dall Erba, University of Illinois
- Steve Deller, University of Wisconsin - Madison
- Timothy Wojan, National Science Foundation

### 35. Location and Spatial Analysis I [Formal Paper Session] Friday | 8:00 am-10:00 am | Mt. Columbia

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

**Chairs:** Alan Murray, University of California at Santa Barbara; Tandem Young, University of Arkansas;

- *Identifying vulnerable healthcare corridors for rural dental care service: A covering location approach.* Emmanuel Afriyie, University of Tennessee, Changwha Oh, University of Tennessee, Beomyoung Cho, Department of Public Health, University of Tennessee, Hyun Kim, University of Tennessee
- *Fire Response in Rural California.* Yuyang Zhang, University of California, Santa Barbara, Thelonious Funk, UC Santa Barbara Geography, Alan Murray, University

of California at Santa Barbara, Danica Marter, University of California - Santa Barbara

- Tandem Young, University of Arkansas, Dave Shideler, Heartland Forward

**Discussants:**

- Richard Church, University of California - Santa Barbara
- Dung Nguyen, Colorado State University
- Danial Alizadeh, University of California, Santa Barbara

**36. Entrepreneurship and Innovation I [Formal Paper Session]**

**Friday | 8:00 am-10:00 am | Mt. Princeton**

**Chair:** Jaehee Song, University of Colorado Boulder

- *The Effects of Banking Consolidation on Entrepreneurship and Innovation.* Oudom Hean, North Dakota State University, Jaxon Nankivel, North Dakota State University, Sean Schiefelbein, North Dakota State University
- *Do AI innovations benefit farther-away places' AI entrepreneurship?.* Yijia Wen, Florida State University, Kerry Fang, the University of Illinois at Urbana-Champaign
- *Patent Volatility, Country and Region Size, and Growth across Multiple Technology Domains.* Breandan O hUallachain, Arizona State University
- *The Externalities of Innovative Startups: Impacts on Real Estate and Local Economy.* Walter D'Lima, Florida International University, Carlos Hurtado, University of Richmond, Jaehee Song, University of Colorado Boulder

**Discussants:**

- Jaehee Song, University of Colorado Boulder
- Jaxon Nankivel, North Dakota State University
- Yijia Wen, Florida State University
- Breandan O hUallachain, Arizona State University

**37. Transportation I: Transportation Planning [Formal Paper Session]**

**Friday | 8:00 am-10:00 am | Mt. Wilson**

**Chair:** Huahua Zhu, Indiana University

- *Evaluating Planning Structures and Gaps in Rural and Small Urban Transportation: Insights from the Mid-Atlantic.* Yessenia Cruz Caleno, West Virginia University, V. Dimitra Pyrialakou, West Virginia University
- *Federal-State-Local Interdependence in U.S. Metropolitan Transportation Planning: A Theoretical and Comparative Regional Analysis.* Muhammet Sever, George Mason University, Adriana Valentina Farias, George Mason University, Jonathan Gifford, George Mason University, Susan Binder, Cambridge Systematics

- *Assessing the Transportation Impact of Establishing Regional Transportation Planning Organizations: Evidence from the Mid-Atlantic.* Mustahsin Aziz, WVU, Yessenia Cruz Caleno, West Virginia University, V. Dimitra Pyrialakou, West Virginia University
- *The Transportation Network Efficiency Effects of Congestion Pricing.* Huahua Zhu, Indiana University

**Discussants:**

- Huahua Zhu, Indiana University
- Yessenia Cruz Caleno, West Virginia University
- Muhammet Sever, George Mason University
- Mustahsin Aziz, WVU

**38. Roundtable Discussion of the NERSA/NARSC Program for Early Career Regional Science Scholars and Project Presentations [Special Session]**

**Friday | 8:00 am-10:00 am | Mt. Oxford**

**Chairs:** Mckenzie Boyce, University of Wisconsin - Madison; Ting Zhang, University of Baltimore;

- *Livability and Life-Cycle Migration.*
- *Firms and Rural Worker Migration Project Proposal.* Mckenzie Boyce, University of Wisconsin - Madison, James Davis, Economic Research Service

**39. Regional/Rural Development IV: Essential Infrastructure [Special Session]**

**Friday | 8:00 am-10:00 am | Mt. Yale**

**Organizers:** Sarah Low, University of Illinois; Tim Komarek, Colorado State University;

**Chair:** Kendall Stephenson, Colorado State University

- *Spillover Impact of Metropolitan Airport Traffic on Micropolitan Economies.* Eric Thompson, University of Nebraska-Lincoln, Shih-Hsien Chuang, Northwest Missouri State University
- *Effects of the USDA Rural Development Water and Waste Disposal Loan and Grant Program on Rural Municipalities and Local Businesses.* James Davis, Economic Research Service, Robert Dinterman, USDA, Krishna Paudel, Texas Tech University, Anil Rupasingha, USDA-ERS
- *Rural Emergency Hospital Conversions.* Cris Meier, Utah State University, Anja Gruber, University of Wyoming, Anders Van Sandt, Colorado State University, Scott Loveridge, Michigan State University, Craig Carpenter, Michigan State University
- *Local Fiscal Effects of School Finance Reform: New Evidence from Michigan's Proposal A.* Kendall Stephenson, Colorado State University

**Discussants:**

- Kendall Stephenson, Colorado State University
- Eric Thompson, University of Nebraska-Lincoln
- James Davis, Economic Research Service
- Anja Gruber, University of Wyoming

#### 40. SRSA Council Meeting

Friday | 8:00 am-10:00 am | Mt. Harvard

**Organizer:** Caleb Stair, University of Florida

**Chair:** Caleb Stair, University of Florida

**NARSC Office [Informal meeting]**

Friday | 8:00 am-5:00 pm | Summit Peak

**Registration**

Friday | 8:00 am-5:00 pm | Third Floor Foyer

**Coffee Break [Break]**

Friday | 10:00 am-10:30 am | Coffee Break Area

#### 41. RSAI Council [Business Meeting]

Friday | 10:00 am-12:00 pm | Mt. Harvard

#### 42. Trade, Transportation, and Global Supply Chains: Spatial Perspectives II [Formal Paper Session]

Friday | 10:30 am-12:30 pm | Maroon Peak

**Organizers:** Paul Jung, Hong Kong Polytechnic University; Sandy Dall Erba, University of Illinois; Marco Modica, Gran Sasso Science Institute;

**Chairs:** Sandy Dall Erba, University of Illinois; Mengming Li, National Renewable Energy Laboratory;

- *Overlapping shocks and regional resilience: Great Recession, Covid-19 and the role of sectoral composition.* [Marco Modica, Gran Sasso Science Institute](#), Giulia Urso, Gran Sasso Science Institute, Laura Gallina, Gran Sasso Science Institute
- *Maritime hub-corridors: Examining the Spatial Structure in Global Maritime Networks.* [Wanhee Kim, University of Tennessee](#), Hyun Kim, University of Tennessee, Paul Jung, Hong Kong Polytechnic University
- *Panama Canal Drought and Supply Chain Disruptions in Asia-U.S. Trade.* [Paul Jung, Hong Kong Polytechnic University](#), Kijin Kim, Asian Development Bank, Ah-Hyun Jo, Korea Maritime Institute, Seong-hyun Cho, Korea Maritime Institute
- *A Global Supply Chain Framework for Economic, Environmental, and Workforce Analysis of U.S. Energy Production.* [Mengming Li, National Renewable Energy Laboratory](#), Andre Fernandes Tomon Avelino, National Renewable Energy Laboratory, Alberto Franco Solis, National Renewable Energy Laboratory (NREL), Yi Min Zhang, National Renewable Energy Laboratory, Greg Avery, National Renewable Energy Laboratory (NREL)

**Discussants:**

- Sergio Rey, San Diego State University
- Adam Rose, University of Southern California
- Marco Modica, Gran Sasso Science Institute
- Paul Jung, Hong Kong Polytechnic University

**43. Location and Spatial Analysis II [Formal Paper Session]**  
**Friday | 10:30 am-12:30 pm | Mt. Columbia**

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

**Chair:** Richard Church, University of California - Santa Barbara

- *Advancing Regional Wildfire Risk Management through Spatiotemporal Modeling.* Jiwon Baik, UCSB, Alan Murray, University of California at Santa Barbara
- *Using GIS and Optimization Models for Strategic Management of Linear Fuel Breaks to Mitigate Wildfire Risk.* Dung Nguyen, Colorado State University, Erin Belval, USDA Forest Service, Yu Wei, Colorado State University, David Calkin, USDA Forest Service
- *Quantifying and Contextualizing Mobility Responses to Wildfires: Insights from the Palisades and Eaton Wildfires.* Danial Alizadeh, University of California, Santa Barbara, somayeh dodge, University of California - Santa Barbara
- *Supporting Wildfire Mitigation Investment Prioritization.* Thelonious Funk, UC Santa Barbara Geography, Alan Murray, University of California at Santa Barbara

**Discussants:**

- Yunqiang Zheng, Arizona State University
- Thelonious Funk, UC Santa Barbara Geography
- Sooyoung Lim, Pennsylvania State University
- Changwha Oh, University of Tennessee

**44. Outreach in Regional Science II [Formal Paper Session]**  
**Friday | 10:30 am-12:30 pm | Mt. Oxford**

**Organizers:** Heather Stephens, West Virginia University; John Winters, Iowa State University; Emily Wornell, Ball State University;

**Chair:** Heather Stephens, West Virginia University

- *The Entrepreneurial Climate Survey: Insights on Business Owners and Support for Entrepreneurship.* Tessa Conroy, University of Wisconsin-Madison/Extension, Steve Deller, University of Wisconsin - Madison
- *Update on USDA Regional Food Business Centers: Connecting, Guiding and Investing in Rural Food Ecosystems in Dynamic Times.* Dawn Thilmany, Colorado State

University, Anders Van Sandt, Colorado State University, Lauren Gwin, Oregon State University, Jayna Mallon, Colorado State University

- *Quality-of-Life Measures: A Comparison.* Tessa Conroy, University of Wisconsin-Madison/Extension, Steve Deller, University of Wisconsin - Madison, Danielle Schmidt, University of Wisconsin-Madison, Mckenzie Boyce, University of Wisconsin - Madison, Yang Cheng, UW-Madison

**Discussants:**

- John Winters, Iowa State University
- Steve Deller, University of Wisconsin - Madison
- Dawn Thilmany, Colorado State University

**45. NARSC Student Paper Competition [Formal Paper Session]  
Friday | 10:30 am-12:30 pm | Mt. Princeton**

**Chair:** Caroline Welter, West Virginia University

- *Shadows haunting: How does high-speed rail affect the spatial pattern of regional economic growth across China?.* Xiaoting Zhong, Renmin University of China, Wei Chen, Renmin University of China
- *The Impact of View Obstruction by High-Rise Buildings on Housing Prices: Evidence from the LCT Complex in Busan, South Korea.* youngjae song, Graduate School of Kongju National University Kong ju, Korea, Tae-Hwa Kim, Kongju National University
- *Local Government Resilience to Federal Tax Reform: Evidence from the SALT Deduction Cap.* Federico Corredor, Georgia State University
- *The Impact of SSA Field Office Closures on Disability Program Participation.* Caroline Welter, West Virginia University

**46. Transportation II: Transportation Planning [Formal Paper Session]  
Friday | 10:30 am-12:30 pm | Mt. Wilson**

**Chair:** Ye Fan, PetroChina Planning & Engineering Institute

- *Geographic Determinants of EV Infrastructure Distribution: A Spatial Modeling Approach.* Ankit Aryal, University of New Mexico, Lisa Losada-Rojas, University of New Mexico
- *Mapping Vehicle Adoption Dynamics in USA.* Hania Afzal, University of Nebraska Lincoln (UNL)
- *What drives a world trade globalization during the Past 50 Years: Progress, Causality, Disparity, WTO, Trade-War, Crisis.* Tatsuyoshi MIYAKOSHI, Gifu Shotoku-Gakuen University
- *Shenzhen's 15-minute city initiative: A model for high-quality urban development.* Yongda Yu, Tsinghua University, Ye Fan, PetroChina Planning &

Engineering Institute, Yu Gao, Tsinghua University, Jing Liang, Harbin Institute of Technology

**Discussants:**

- Ye Fan, PetroChina Planning & Engineering Institute
- Lisa Losada-Rojas, University of New Mexico
- Hania Afzal, University of Nebraska Lincoln (UNL)
- Tatsuyoshi MIYAKOSHI, Gifu Shotoku-Gakuen University

**47. Regional/Rural Development V: Food Business & Entrepreneurship [Special Session]**

**Friday | 10:30 am-12:30 pm | Mt. Yale**

**Organizers:** Sarah Low, University of Illinois; Tim Komarek, Colorado State University;

**Chair:** Ignacio Correas, Independent Researcher

- *Locating Food Entrepreneurship: Regional Drivers of Shared Kitchen Facilities.* Rebecca Wasserman-Olin, Colorado State University, Dawn Thilmany, Colorado State University
- *Fork in the Road: Three Decades of Evolution in the U.S. Food Service Landscape.* Andrew Van Leuven, University of Vermont, Aleks Schaefer, Oklahoma State University, Courtney Bir, Oklahoma State University, Trey Malone, Purdue University, Anne Byrne, USDA Economic Research Service
- *The Local Economic Impacts of Food Manufacturing Plant Closures: Evidence from the Midwest.* Shengrong Hu, Iowa State University
- *Size Matters: Does the Concentration of Employment in Big Firms Affect New Business Formation? A Test of the Chinitz Hypothesis.* Ignacio Correas, Independent Researcher

**Discussants:**

- Ignacio Correas, Independent Researcher
- Rebecca Wasserman-Olin, Colorado State University
- Andrew Van Leuven, University of Vermont
- Shengrong Hu, Iowa State University

**48. Lunch and Award Ceremony [Lunch]**

**Friday | 12:30 pm-1:45 pm | Colorado B**

**49. Natural Disasters I [Formal Paper Session]**

**Friday | 1:45 pm-3:45 pm | Maroon Peak**

**Chair:** Ye-Rim Lee, Michigan State University

- *Natural Disasters and Housing Development.* Qin Fan, California State University, Fresno, Jiaochen Liang, California State University - Fresno

- *Natural Disaster Disruption and Recovery: A Spatial Analysis with Remote Sensing and Cell-Phone Data.* [Mustahsin Aziz, WVU](#)
- *Do Landslides Impact Urbanization Patterns? Evidence from Brazilian Cities.* [Ricardo Lima, Universidade Católica de Brasília](#), Pedro Alves, IPEA, Bruno Barsanetti, FGV, Francisco Cavalcanti, Universidade Federal de Pernambuco
- *Hurricane Disruptions and Gasoline Prices: Spatial Spillovers and Short-Term Market Dynamics.* [Ye-Rim Lee, Michigan State University](#), Mark Skidmore, Michigan State University, Scott Loveridge, Michigan State University, Dusan Paredes, Universidad Catolica del Norte

**Discussants:**

- Ye-Rim Lee, Michigan State University
- Qin Fan, California State University, Fresno
- Mustahsin Aziz, WVU
- Ricardo Lima, Universidade Católica de Brasília

**50. Location and Spatial Analysis III [Formal Paper Session]**

**Friday | 1:45 pm-3:45 pm | Mt. Columbia**

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

**Chairs:** Ran Wei, University of California, Riverside; Richard Church, University of California - Santa Barbara;

- *Compact Land Use Allocation.* [Alan Murray, University of California at Santa Barbara](#)
- *A hybrid approach integrating GeoAI and metaheuristics for spatial optimization problems.* [Sooyoung Lim, Pennsylvania State University](#), Gunhak Lee, Seoul National University
- *Optimizing Green Stormwater Infrastructure Siting in Desert Cities.* [Yunqiang Zheng, Arizona State University](#), Daoqin Tong, Arizona State University
- *The alternatives to formulating the p-median problem, Part 2: "Does it make a difference?".* [Richard Church, University of California - Santa Barbara](#)

**Discussants:**

- Gunhak Lee, Seoul National University
- Jiwon Baik, UCSB
- Zhongqi Zheng, University of California at Santa Barbara
- Emmanuel Afriyie, University of Tennessee

**51. Alternative Employment Systems [Formal Paper Session]**

**Friday | 1:45 pm-3:45 pm | Mt. Oxford**

**Chair:** Mitsuru Ota, University of Tsukuba

- *Identifying patterns: career trajectories of high-skilled self-employed.* Annie Lee, University of North Texas
- *Self-Employment Dynamics During Economic Crises: Formation, Survival, and Status Transitions.* Luyi Han, Penn State University, Xiaoyin Li, West Virginia University, Zheng Tian, Pennsylvania State University, Heather Stephens, West Virginia University, Stephan Goetz, Pennsylvania State University
- *Urban Decentralization under COVID-19: Global Evidence on Telework, Satellite Offices, and Implications for Urban Policy.* Mitsuru Ota, University of Tsukuba

**Discussants:**

- Mitsuru Ota, University of Tsukuba
- Annie Lee, University of North Texas
- Heather Stephens, West Virginia University

## **52. Entrepreneurship and Innovation II [Formal Paper Session]**

**Friday | 1:45 pm-3:45 pm | Mt. Princeton**

**Chair:** Adi Weidenfeld, University of Warsaw

- *Local Governance Innovation and Industrial Transformation in the Low-Altitude Economy: Evidence from Sichuan Province, China.* CHUN FANG LIU, Ming Chuan University, Chi-Tung Hung, Ming Chuan University
- *Driving Innovation in Infrastructure: Comparing Delivery Models Through a Regional Lens.* Muhammet Sever, George Mason University
- *Beyond the Ivory Tower: Understanding the Impact of Rural Higher Education Institutions on Local Entrepreneurial Ecosystems.* Amanda Weinstein, Center on Rural Innovation, Lindsey Elliott, Center on Rural Innovation, Adam Dewbury, Center on Rural Innovation
- *Spatial Spillovers and Technical Efficiency in U.S. Local Banks.* Zhuyin Li, The University of Chicago
- *Delineating Functional areas of knowledge networks of regions.* Adi Weidenfeld, University of Warsaw

**Discussants:**

- Adi Weidenfeld, University of Warsaw
- CHUN FANG LIU, Ming Chuan University
- Muhammet Sever, George Mason University
- Amanda Weinstein, Center on Rural Innovation
- Zhuyin Li, The University of Chicago

**53. Transportation III: Transit [Formal Paper Session]**  
**Friday | 1:45 pm-3:45 pm | Mt. Wilson**

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

- *Disentangling Attitudes Towards Microtransit: Understanding Rural and Urban Motivators.* Adrianna Fragozo Alvernia, University of New Mexico, Lisa Losada-Rojas, University of New Mexico
- *Optimizing AV-Supported Microtransit for Transit Integration in Rural and Small Urban Networks: A Case Study from West Virginia.* Alvira Ahmed Tasnim, West Virginia University, Kakan Dey, Michigan State University, V. Dimitra Pyrialakou, West Virginia University
- *Transit Volunteer Initiatives: Emerging Patterns and Lessons from Rural America.* Gregory Newmarka, Morgan State University, Claire Githinji, Morgan State University, Yessenia Cruz Caleno, West Virginia University, V. Dimitra Pyrialakou, West Virginia University
- *Assessing Transit-Driven Residential Change: Multiyear Street-View Analysis and Structured Attribute Extraction with Vision-Language Models.* Kaushik Pillalamarri, North Carolina State University, Leif Rasmussen, North Carolina State University, Bowen Chen, North Carolina State University, Dongkuan Xu, North Carolina State University, Eleni Bardaka, North Carolina State University

**Discussants:**

- Eleni Bardaka, North Carolina State University
- Lisa Losada-Rojas, University of New Mexico
- V. Dimitra Pyrialakou, West Virginia University
- V. Dimitra Pyrialakou, West Virginia University

**54. Regional/Rural Development VI: Housing Issues [Special Session]**  
**Friday | 1:45 pm-3:45 pm | Mt. Yale**

**Organizers:** Sarah Low, University of Illinois; Tim Komarek, Colorado State University;

**Chair:** Sal McCollum, Colorado State University

- *Housing Financial Stress and Community Well-Being: Is there an Urban-Rural Dimension.* Steve Deller, University of Wisconsin - Madison, Erin Gaede, University of Wisconsin-Madison, Tessa Conroy, University of Wisconsin-Madison/Extension
- *Catalyst for Commuting? Rural Housing Policies and Metropolitan Areas.* Thomas Keene, University of Kentucky, Craig Carpenter, Michigan State University, Lucas Taulbee, University of Kentucky
- *Source of Income Discrimination and Homelessness: Effects of Anti-Discrimination Laws.* Luke Maddock, Colorado State University

- *Affordable Housing as Local Economic Development: Evidence from Colorado LIHTC Projects.* [Sal McCollum, Colorado State University](#), Tim Komarek, Colorado State University

**Discussants:**

- Sal McCollum, Colorado State University
- Erin Gaede, University of Wisconsin-Madison
- Thomas Keene, University of Kentucky
- Luke Maddock, Colorado State University

**Coffee Break [Break]**

**Friday | 3:45 pm-4:15 pm | Coffee Break Area**

**55. Natural Disasters II [Formal Paper Session]**

**Friday | 4:15 pm-6:15 pm | Maroon Peak**

**Chair:** Vicente Royuela, University of Barcelona (Spain)

- *Evaluating the impact of wildfires on firm migration in western US.* [Richard Acquah-Sarpong, Oregon State University](#)
- *: Storms, and Fires: How Natural Hazards are Shaking Up Home Insurance and Migration in the US"?.* [Ephraim Nkonya, USDA](#)
- *Extreme weather and extreme values.* Marc Gronwald, Xi'an Jiaotong-Liverpool University, Xin Jin, Duke Kunshan University, [Sania Wadud, University of Leeds](#)
- *Measuring the Green Transition in Europe: A Multidimensional Index for European NUTS2 Regions.* Sebastian Ritter, University of Barcelona, [Vicente Royuela, University of Barcelona \(Spain\)](#)

**Discussants:**

- Elham Erfanian, Black Hills State University
- Richard Acquah-Sarpong, Oregon State University
- Vicente Royuela, University of Barcelona (Spain)
- Ephraim Nkonya, USDA

**56. Location and Spatial Analysis IV [Formal Paper Session]**

**Friday | 4:15 pm-6:15 pm | Mt. Columbia**

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

**Chairs:** Daoqin Tong, Arizona State University; Yeshuo Shu Yeshuo Shu, University of California, Santa Barbara;

- *Spatial Optimization for Local Evacuation Planning.* [Zhongqi Zheng, University of California at Santa Barbara](#), Alan Murray, University of California at Santa Barbara

- *Optimize High Pediatric Readiness Emergency Department Network with Limited Budget.* Ran Wei, University of California, Riverside
- *Triangulating Bias: A Multidimensional Evaluation of Mobile Location Data for Green-Space Accessibility Analysis.* Yeshuo Shu, University of California, Santa Barbara, somayeh dodge, University of California - Santa Barbara

**Discussants:**

- Ran Wei, University of California, Riverside
- Tandem Young, University of Arkansas
- Daoqin Tong, Arizona State University

**57. Housing III [Formal Paper Session]**

**Friday | 4:15 pm-6:15 pm | Mt. Oxford**

**Chair:** Janet Kohlhase, University of Houston

- *Divergent Housing Affordability and Livability Trends Across U.S. County Types: The Roles of Mobile Homes and New Construction, 2013–2023.* Zheng Tian, Pennsylvania State University, Stephan Goetz, Pennsylvania State University
- *Large-Scale Apartment Complexes and Social Mix: An Empirical Analysis of Rental Diversity and Urban Spatial Structure in Seoul, South Korea.* Bo-kyoung Park, seoul national university, In Kwon Park, Seoul National University
- *The impact of residential gentrification on business entries and exits: A sector-specific analysis of 5 U.S. cities.* Marie-Pier Champagne, Laval University, Eleni Bardaka, North Carolina State University
- *The Welfare Impact of Housing Inflation in Rural and Urban Areas.* Fernanda Alfaro-Gonzalez, michigan state university, Scott Loveridge, Michigan State University, Dusan Paredes, Universidad Catolica del Norte, Mark Skidmore, Michigan State University

**Discussants:**

- Fernanda Alfaro-Gonzalez, michigan state university
- Stephan Goetz, Pennsylvania State University
- Bo-kyoung Park, seoul national university
- Marie-Pier Champagne, Laval University

**58. Fake News, Scientific Truth, and AI & Great Minds in Regional Science [Formal Paper Session]**

**Friday | 4:15 pm-6:15 pm | Mt. Princeton**

**Organizers:** Karima Kourtiti, Open University of The Netherlands,; Peter Nijkamp, Rijeka University, Rijeka, Croatia;

**Chairs:** Peter Schaeffer, West Virginia University; Bruce Newbold, McMaster University; David Plane, University of Arizona;

- *Scientific Consensus, Humans and Machines.* Karima Kourtit, Open University of The Netherlands, Peter Nijkamp, Rijeka University, Rijeka, Croatia
- *GiGo and BiBo in the Housing Market.*
- *Great Minds in Regional Science - David Boyce.* Hillel Bar-gera, Ben-Gurion University of the Negev
- *Great Minds in Regional Science - Andrew Isserman.* Peter Schaeffer, West Virginia University

#### **59. Transportation IV: Rail [Formal Paper Session]**

**Friday | 4:15 pm-6:15 pm | Mt. Wilson**

**Chair:** Juan Wang, NCSU

- *Does High-Speed Rail Reduce Road Traffic?: Evidence from Japan.* Ryosuke Matsumoto, Railway Technical Research Institute
- *Exploring the Heterogeneous Impacts of HSR between Hubs and Intermediate Cities.* Juan Wang, NCSU, Eleni Bardaka, North Carolina State University, Michael Delgado, Purdue University
- *HSR Network Connectivity and Its Relationship to City GDP.* Juan Wang, NCSU, Eleni Bardaka, North Carolina State University, Michael Delgado, Purdue University
- *The effectiveness of speed enforcement policies in congested cities.* Daniel Amorim Centuriao, West Virginia University

**Discussants:**

- Juan Wang, NCSU
- Daniel Amorim Centuriao, West Virginia University
- Steven Craig, University of Houston
- Ryosuke Matsumoto, Railway Technical Research Institute

#### **60. Regional/Rural Development VII: Natural Resources [Special Session]**

**Friday | 4:15 pm-6:15 pm | Mt. Yale**

**Organizers:** Sarah Low, University of Illinois; Tim Komarek, Colorado State University;

**Chair:** Laura Paul, ERS/USDA

- *Forgoing Nuclear: Nuclear Power Plant Closures and Carbon Emissions in the United States.* Luke Petach, Belmont University
- *US Home Purchases and the Environmental Amenity-Risk Tradeoff Spanning COVID-19.* Nicholas Kacher, Scripps College
- *The Resource Next Door: Displacement, Infrastructure, and Uneven Outcomes in Ghana's Mining Zones.* Monica Opoku, Colorado State University

- *Natural Amenity Scale 2.0: Conceptual and Empirical Advancements in Measuring Rural Natural Amenities.* [Laura Paul, ERS/USDA](#), Elizabeth Dobis, USDA Economic Research Service

**Discussants:**

- Laura Paul, ERS/USDA
- Luke Petach, Belmont University
- Nicholas Kacher, Scripps College
- Monica Opoku, Colorado State University

## Saturday

**NARSC Office [Informal meeting]**

**Saturday | 8:00 am-12:00 pm | Summit Peak**

**Registration**

**Saturday | 8:00 am-12:00 pm | Third Floor Foyer**

**61. Crime [Formal Paper Session]**

**Saturday | 8:00 am-10:00 am | Maroon Peak**

**Chair:** Miriam Berretta, Gran Sasso Science Institute

- *The role of human capital in corruption. Evidence using contract splitting in Italian municipalities.* Ilenia Bertacche, University of Corsica, Claudio Detotto, University of Corsica, Bianca Biagi, University of Sassari
- *Disaster's Shadow: The Overlooked Impact of Floods, Cyclones, and Storms on Violence against Women and Girls in Mexico.* Miriam Berretta, Gran Sasso Science Institute

**Discussants:**

- Miriam Berretta, Gran Sasso Science Institute
- Ilenia Bertacche, University of Corsica

**62. Mobility [Formal Paper Session]**

**Saturday | 8:00 am-10:00 am | Mt. Columbia**

**Chair:** Miquel-Angel Garcia-Lopez, Universitat Autònoma de Barcelona

- *Older Adult Migration and Mobility: New Insights from the Canadian Longitudinal Survey on Aging.* Bruce Newbold, McMaster University
- *How Do Rising Temperatures Affect the Activities of Older Adult Migrants? Disentangling Transportation, Health, and the Built Environment.* Mark Horner, Florida State University, Amber DeJohn, Florida State University, Md. Abdul Fattah, Florida State University
- *Pollution and mobility (restrictions): A natural experiment using the COVID-19 pandemic.* Miquel-Angel Garcia-Lopez, Universitat Autònoma de Barcelona, Hugo Carpena Barranco

**Discussants:**

- Miquel-Angel Garcia-Lopez, Universitat Autònoma de Barcelona
- Bruce Newbold, McMaster University
- Mark Horner, Florida State University

### 63. AI and the Economy [Formal Paper Session]

Saturday | 8:00 am-10:00 am | Mt. Oxford

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

- *Using Skill Multipliers to Estimate the Impact of AI on the New England Economy.* Andrew Crawley, University of Maine, Elinor Hunt, University of Maine
- *"AI and the Geography of Skill Mobility: Rethinking Human Capital Flows in the Age of Intelligent Automation".* Ting Zhang, University of Baltimore, Laurie Schintler, George Mason University
- *Understand Information Industry: An Adapted Model and Real-World Observations.* Zhenpeng Zhang, University of Illinois Urbana-Champaign, Kerry Fang, the University of Illinois at Urbana-Champaign
- *REMI-AI: Artificial Intelligence Analysis in Regional Economic Modeling.* Frederick Treyz, Regional Economic Models, Inc

**Discussants:**

- Frederick Treyz, Regional Economic Models, Inc
- Andrew Crawley, University of Maine
- Ting Zhang, University of Baltimore
- Zhenpeng Zhang, University of Illinois Urbana-Champaign

### 64. Health and Wellness II [Formal Paper Session]

Saturday | 8:00 am-10:00 am | Mt. Princeton

**Chair:** Michael Betz, The Ohio State University

- *Mapping Neighborhood Patterns in the U.S. MidLife Mortality Crisis: a Sequence Analysis.* Siqiao Xie, University of Colorado Boulder, Aleksander Berg, University of Colorado - Boulder, Myron Gutmann, University of Colorado - Boulder, Lisa Hollister, University of Colorado - Boulder, Sara Hoose, University of Colorado - Boulder, Hoeyun Kwon, Lehman College, Stefan Leyk, University of Colorado - Boulder
- *Optimal City Size with Endogenous Fertility.* Rainald Borck, University of Potsdam, Tadashi Morita, Kindai University, Yasuhiro Sato, University of Tokyo
- *Geographic variation of the impact of state abortion bans on fertility across the rural/urban continuum.* Michael Betz, The Ohio State University

**Discussants:**

- Michael Betz, The Ohio State University
- Siqiao Xie, University of Colorado Boulder
- Yasuhiro Sato, University of Tokyo

**65. Broadband [Formal Paper Session]**  
**Saturday | 8:00 am-10:00 am | Mt. Wilson**

**Chair:** Samuel Peterson, North Dakota State University

- *Mind the gap: Using survey data to adoption rates, complaints, and reliability of household broadband.* Edward Helderop, University of California, Riverside, Elizabeth Mack, Michigan State University, Brian Kowalkowski, College of Menominee Nation, Nicole Fish, College of Menominee Nation, Thomas Keene, University of Kentucky
- *Geographic Patterns of Home Broadband Usage: Insights from National Household Survey Data.* Elizabeth Mack, Michigan State University, Edward Helderop, University of California, Riverside, Brian Kowalkowski, College of Menominee Nation, Nicole Fish, College of Menominee Nation, Thomas Keene, University of Kentucky
- *Broadband and Work-from-Home: Evidence from Confidential ACS Data.* Luyi Han, Penn State University, John Winters, Iowa State University, Brian Whitacre, Oklahoma State University
- *The Health Effects of Broadband.* Samuel Peterson, North Dakota State University, Oudom Hean, North Dakota State University

**Discussants:**

- Samuel Peterson, North Dakota State University
- Edward Helderop, University of California, Riverside
- Elizabeth Mack, Michigan State University
- Luyi Han, Penn State University

**66. Trade [Formal Paper Session]**  
**Saturday | 8:00 am-10:00 am | Mt. Yale**

**Chair:** Claudia Montania, University of Arizona

- *Climate Shocks, Trade Flows, and Price Resilience: A Structural Gravity and LASSO Approach to Global Crop Networks.* Xialing Zhao, Penn State, Linlin Fan, Pennsylvania State University, An Cao, University of Bonn, Thomas Heckeley, University of Bonn, Kathy Baylis, University of California - Santa Barbara
- *Accounting for adaptation in the measurement of water embedded in the global agri-food value chain.* Alberto Franco Solis, National Renewable Energy Laboratory (NREL), Claudia Montania, University of Arizona, Sandy Dall Erba, University of Illinois

**Discussants:**

- Claudia Montania, University of Arizona
- Xialing Zhao, Penn State



**Coffee Break [Break]**

**Saturday | 10:00 am-10:30 am | Coffee Break Area**

**67. Labor Markets [Formal Paper Session]**

**Saturday | 10:30 am-12:30 pm | Maroon Peak**

**Chair:** Carsten Ochsen, HdBA

- *The Burden of Occupational Regulation on Women-Driven Industries.* Darwyn Deyo, San Jose State University, Carlianne Patrick, Georgia State University, Alicia Plemmons, West Virginia University
- *Skill-based Occupational Connectivity and Local Labor Market Development.* Xiaoyin Li, West Virginia University, Heather Stephens, West Virginia University, David Nason, Florida Gulf Coast University
- *US Labor Market Dynamics in the Past Decades.* Carsten Ochsen, HdBA

**Discussants:**

- Carsten Ochsen, HdBA
- Carlianne Patrick, Georgia State University
- Xiaoyin Li, West Virginia University

**68. Methods in Regional Science [Formal Paper Session]**

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

**Chair:** Johannes Plambeck, Cornell University

- *FURS: Fuzzy urban and regional sets.* Eric J. Heikkila, Univ. Southern California, Seula Lee, University of Southern California
- *Endogenous weights in spatial autoregressions.* Offer Lieberman, Gianfranco Piras, G. d'Annunzio University, Jungyoon Lee, , Francesca Rossi
- *Assessing Causal Explanations in Spatial Dynamic Models and Their Possible use in Counterfactual Analyses.* Kieran Donaghy, Cornell University
- *Optimising HCP Sample Allocation in Pharma: Combining NonLinear Ensemble Learning, Spatial Lags, and Integer Programming.* Johannes Plambeck, Cornell University

**Discussants:**

- Johannes Plambeck, Cornell University
- Eric J. Heikkila, Univ. Southern California
- Gianfranco Piras, G. d'Annunzio University
- Kieran Donaghy, Cornell University

**69. Quality of Life and Welfare [Formal Paper Session]**  
**Saturday | 10:30 am-12:30 pm | Mt. Oxford**

**Chair:** Tohru Naito, Doshisha University

- *Quality of life in the Appalachia Region: Some Preliminary Evidence and Research Agenda.* John Deskins, West Virginia University, Michael Hicks, Ball State University, Heather Stephens, West Virginia University, Amanda Weinstein, Center on Rural Innovation
- *Amenity Alchemy: the Spatially Varying Nature of Amenities in Shaping Regional Futures.* Yong Chen, Oregon State University, Myungjin Kim, Kyungpook National University
- *Continuous Spatial Difference-in-Differences for Welfare Evaluation.* Sean McCulloch, Brown University
- *The Impact of Transboundary Pollution on Demographic Patterns and Social Welfare.* Hiroyuki Hashimoto, University of Hyogo, Tohru Naito, Doshisha University

**Discussants:**

- Tohru Naito, Doshisha University
- Michael Hicks, Ball State University
- Yong Chen, Oregon State University
- Sean McCulloch, Brown University

**70. The Green Transition [Formal Paper Session]**  
**Saturday | 10:30 am-12:30 pm | Mt. Princeton**

**Chair:** Joao-Pedro Ferreira, University of Virginia

- *Green with Anger. Violent and polarised reactions to environmental reforms and local vulnerability to the green transition.* Daria Denti, Gran Sasso Science Institute London School of Economics/
- *Interaction of Green Infrastructure and Homeownership in Flood Mitigation in Chicago.* Hao Huang, Illinois Institute of Technology, Matthew Shapiro, Illinois Institute of Technology, David Lampert, Illinois Institute of Technology, Maria Villalobos, Illinois Institute of Technology, Ron Henderson, Illinois Institute of Technology, Brent Stephens, Illinois Institute of Technology, Michael Sansone, Illinois Institute of Technology, Elyse Cooke, Illinois Institute of Technology, Hao Ding, Illinois Institute of Technology
- *A Greening Strategy for Urban Heat Mitigation through Nonlinear Optimization: Case Study of Low-Income Neighborhoods in Downtown Houston.* Bumseok Chun, Texas Southern University, Jiwan K Thapa, Texas Southern University, Jaewoong Won, Kyung Hee University, Jaebum Jun, Kangwon National University

- *Data Centers in the Great Lakes Region: location, economic and energy ramifications.* Terry Rephann, University of Virginia, Matthew Scheffel, University of Virginia, William Shobe, University of Virginia

**Discussants:**

- Terry Rephann, University of Virginia
- Daria Denti, Gran Sasso Science Institute London School of Economics/
- Hao Huang, Illinois Institute of Technology
- Bumseok Chun, Texas Southern University

**71. Wages [Formal Paper Session]**

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

**Chair:** Lauren Miller, USDA Economic Research Service

- *Women on the Margins: Gendered Effects of Large Minimum Wage Changes in Canada.* Sebastian Fossati, University of Alberta, Joseph Marchand, University of Alberta
- *The Impact of a Tiered Minimum Wage on Firms' Credit Default Behavior.* Richard Acquah-Sarpong, Oregon State University, Yong Chen, Oregon State University, Paul Lewin, University of Idaho
- *Access to SNAP Retailers: Varying Retailer Landscapes in Urban and Rural America.* Lauren Miller, USDA Economic Research Service, Erik Scherpf, , Laura Paul, ERS/USDA

**Discussants:**

- Lauren Miller, USDA Economic Research Service
- Joseph Marchand, University of Alberta
- Richard Acquah-Sarpong, Oregon State University

**72. Poverty [Formal Paper Session]**

**Saturday | 10:30 am-12:30 pm | Mt. Yale**

**Chair:** Lindsay Mapes, University of Georgia

- *A Novel Spatially Constrained Regression Tree For The Analysis Of Regional Poverty In The European Union.* Alfredo Cartone, University g.d'Annunzio of Chieti Pescara, Paolo Postiglione, G. d'Annunzio University, Simone Mazzaferro, G. d'Annunzio University
- *The Impact of USDA-Rural Development Programs on Rural Poverty.* Anil Rupasingha, USDA-ERS, Stephan Goetz, Pennsylvania State University, Minsu Kim, Pennsylvania State University, Tracey Farrigan, USDA Economic Research Service
- *Why History Matters: The Tales of the Mississippi Delta.* Melody Muldrow, University of Missouri

- *Rolling the Dice: The Impact of the Indian Gaming Regulation Act on Native American Poverty Rates.* [Lindsay Mapes, University of Georgia](#), Patryk Babiarz, University of Georgia

**Discussants:**

- Lindsay Mapes, University of Georgia
- Alfredo Cartone, University g.dâ€™Annunzio of Chieti Pescara
- Anil Rupasingha, USDA-ERS
- Melody Muldrow, University of Missouri

**73. Carbon Stock and Emissions [Formal Paper Session]**

**Saturday | 1:45 pm-3:45 pm | Maroon Peak**

**Chair:** Shou-Chi Chen, Ming Chuan University

- *Assessment of Terrestrial Carbon Stock Based on Land Use Types and Remote Sensing Data.* [Wen-Yen Lin, Ming Chuan University](#), Chi-Tung Hung, Ming Chuan University, Shou-Chi Chen, Ming Chuan University
- *The effects of international sanctions on trade-embodied emissions.* [Sushant Singh, University of Oklahoma](#)
- *Carbon Emissions from Land Use Data: A Case Study of Taiwan.* [Shou-Chi Chen, Ming Chuan University](#), Jing-Han Chen, , Wen-Yen Lin, Ming Chuan University

**Discussants:**

- Shou-Chi Chen, Ming Chuan University
- Wen-Yen Lin, Ming Chuan University
- Sushant Singh, University of Oklahoma

**74. Politics, Policy, and Business [Formal Paper Session]**

**Saturday | 1:45 pm-3:45 pm | Mt. Columbia**

**Chair:** Ashish Sedai, University of Texas at Arlinton

- *Shining a Spotlight on Film Industry Tax Credits: Evidence from Georgia.* [Federico Corredor, Georgia State University](#), Nadia Farooq, Georgia State University, Carlianne Patrick, Georgia State University
- *Paycheck Protection Program and Small Business Payment Practices.* [Yong Chen, Oregon State University](#), Soomi Lee, University of La Verne
- *Political Alignment and the Distribution of Development: Evidence from Indian Constituencies.* Sandhya Garg, Institute for Economic Growth, [Ashish Sedai, University of Texas at Arlinton](#)

**Discussants:**

- Ashish Sedai, University of Texas at Arlinton
- Federico Corredor, Georgia State University

- Yong Chen, Oregon State University

## 75. Water and Drought [Formal Paper Session]

Saturday | 1:45 pm-3:45 pm | Mt. Oxford

**Chair:** Yixin Chen, New Mexico Tech

- *Drought and the Energy Transition in Latin America.* Ye-Rim Lee, Michigan State University, Lenin H Balza, Inter-American Development Bank, Jose Belnar, Inter-American Development Bank
- *Inferring the Navajo Nation's Crop Acreage and Irrigation Water Demand with Remote Sensing Data and Statistical Models.* Haoying Wang, New Mexico Tech, George Frisvold, University of Arizona, Yixin Chen, New Mexico Tech
- *Estimating irrigation water demand using agent-based modeling in a groundwater-dominated region.* Haoying Wang, New Mexico Tech, Yixin Chen, New Mexico Tech

**Discussants:**

- Yixin Chen, New Mexico Tech
- Ye-Rim Lee, Michigan State University
- Haoying Wang, New Mexico Tech

## 76. Warehousing and Freight [Formal Paper Session]

Saturday | 1:45 pm-3:45 pm | Mt. Princeton

**Chair:** Carlos Rivera-Gonzalez, university of new mexico

- *Modeling Warehouse Location Choice Considering Intra-firm Interactions.* Usman Ahmed, University of Tennessee Knoxville, Carlos Rivera-Gonzalez, university of new mexico, Matthew Roorda
- *Whither logistics sprawl? Spatial dynamics of warehousing and distribution in California.* Genevieve Giuliano, University of Southern California, Suela Lee, University of Southern California
- *Temporal Variations in Freight Accessibility: E-commerce Delivery Patterns in the Chicago Metropolitan Area.* Carter Gibbons, University of New Mexico, Su Zhang, University of New Mexico, Julia Amaral, University of Antwerp, Carlos Rivera-Gonzalez, university of new mexico

**Discussants:**

- Carlos Rivera-Gonzalez, university of new mexico
- Usman Ahmed, University of Tennessee Knoxville
- Genevieve Giuliano, University of Southern California

## 77. Economic Development [Formal Paper Session]

Saturday | 1:45 pm-3:45 pm | Mt. Wilson

**Chair:** Andre Fernandes Tomon Avelino, National Renewable Energy Laboratory

- *WARN notices and economic activity.* [Mouhcine Guettabi, university of north carolina wilmigton](#)
- *Are Casinos Cannibals or Anchors?.* [Karl Geisler, Idaho State University](#), Mark Nichols, University of Nevada - Reno
- *Modeling the regional economic and workforce impacts of power grid expansion scenarios.* [Alberto Franco Solis, National Renewable Energy Laboratory \(NREL\)](#), Andre Fernandes Tomon Avelino, National Renewable Energy Laboratory, Mengming Li, National Renewable Energy Laboratory, Yi Min Zhang, National Renewable Energy Laboratory, Greg Avery, National Renewable Energy Laboratory (NREL)
- *Regional Jobs and Economic Impacts of Energy Projects using the WIRED model.* [Andre Fernandes Tomon Avelino, National Renewable Energy Laboratory](#), Yi Min Zhang, National Renewable Energy Laboratory

**Discussants:**

- Andre Fernandes Tomon Avelino, National Renewable Energy Laboratory
- Mouhcine Guettabi, university of north carolina wilmigton
- Karl Geisler, Idaho State University
- Alberto Franco Solis, National Renewable Energy Laboratory (NREL)

## **78. Data [Formal Paper Session]**

**Saturday | 1:45 pm-3:45 pm | Mt. Yale**

**Chair:** Rheann Quenneville, University of Guelph

- *Democratizing Innovation Microdata: How Synthetic Public Use Files Can Address the Credibility Crisis in Applied Economics.* Jorge Cisneros, Oak Ridge Institute for Science and Education, [Timothy Wojan, National Science Foundation](#), Matt Williams, RTI International, Jennifer Ozawa, RTI International, Michael Floyd, Knexus Research LLC, DJ Streat, Knexus Research LLC
- *Lights, Data, Action: Preliminary Evidence on Local Impacts of Timely Public Statistics.* [Gregory Miller, Colorado State University](#)
- *Mapping Rural Data Ecosystems: A Scoping Review of Health, Economic, and Climate Adaptation Data in Ontario.* [Rheann Quenneville, University of Guelph](#)

**Discussants:**

- Rheann Quenneville, University of Guelph
- Timothy Wojan, National Science Foundation
- Gregory Miller, Colorado State University

# Index to Participants

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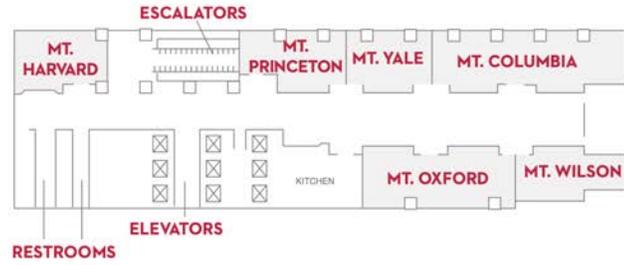
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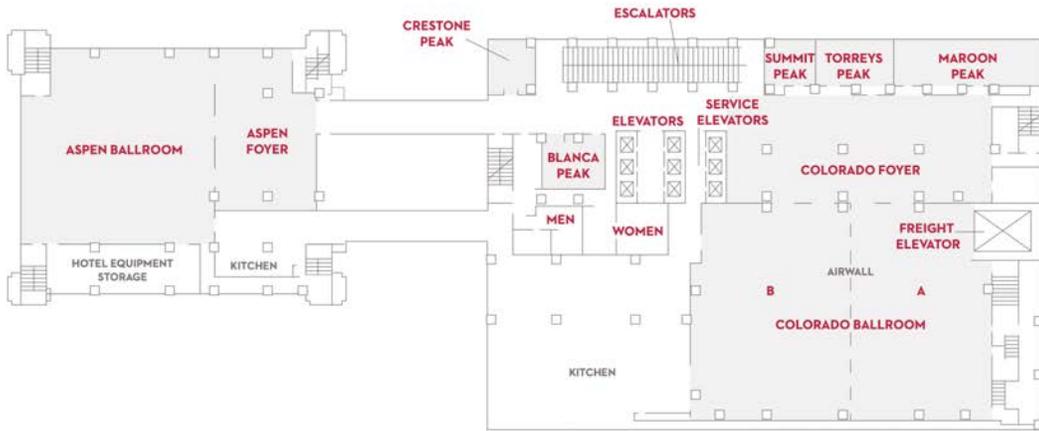


# Hotel Floor Plan

## 3rd Floor



## 2nd Floor



## Lobby Level

