

67th Annual  
North American Meetings  
of the  
Regional Science Association  
International



November 9-13, 2020

## **Welcome to the 67th Annual North American Meetings of the Regional Science Association International!**

On behalf of the North American Regional Science Council, and the Southern Regional Science Association, we welcome you to the Premier Virtual Conference for the 67th Annual North American Meetings of the Regional Science Association International.

We look forward to some exciting events this year including Sergio Rey's RSAI Fellow Lecture on Tuesday, Nov. 10, 10:00 AM to 11:40 AM, "The Legacy of Redlining: A Spatial Dynamics Perspective."

Kara Kockelman's Presidential Plenary on Wednesday, Nov. 11, 10:00 AM-11:40 AM is titled, "Self-driving & All-electric: Anticipating the Travel, Trade, & Energy Impacts of Autonomous Trucks & Cars for US Markets." The Alonso Prize Lecture organized and chaired by Janet Kohlhasse is, "Location Covering Models" on Friday, Nov. 13 from 10:00 AM to 11:30 AM.

We hope everyone is doing well in this strangest of years--2020. While we had hoped to welcome you to beautiful San Diego, instead we welcome you to our Premier Virtual Conference. Like all of you, we were looking forward to catching up with old friends and making new acquaintances in person. However, due to the current situation, we will have to wave at each other through our monitors.

We are all familiar with Zoom by now and that should help you feel more familiar with the sessions. They will be in webinar format, which means you will need to ask questions via the chat or Q&A boxes.

This year, we have put together another great conference with 87 of sessions to share your research, listen to your colleagues, and perhaps find a new collaborator. The sessions are in the same format...four papers each lasting 20 minutes for the presentation and questions. Because of this, you will be able to still "wander" between the rooms to listen to individual papers.

The links for each room change each day, so be sure and check this program for the correct link. If you have problems with a link, please email the room host and they will be able to get you the correct link (emails are below). Please do not share these links with others who have not registered for the conference. NARSC does depend on the registration fees from the conference to continue operations all year long.

We will also have a room open all day for a "coffee-break" on Tuesday-Thursday. In this room, it will be a regular Zoom call. You will see the faces of everyone in there. Come in and meet with colleagues and look for new friends. If you would like to go into a break-out room, send a message to the host and they will let your group go into a private room so you can chat openly.

=== Official Time Zone: U.S. Central ===

In addition, on Wednesday, we will have a NASRC After Hours wine tasting. We had planned to bring in some San Diego wineries for you to talk to and taste, but in place we are doing one of the wineries. virtually. Check out the link to purchase the wines (three bottles) and then join us in the session to learn about the wines (free to participate even if you do not have the wines, just register with the link).

NARSC is still a great opportunity to renew and expand your professional network. You continue to have the opportunity to learn about cutting-edge research in a variety of regional science disciplines.

We hope that you enjoy catching up with old friends and making new acquaintances. Hopefully, these conversations will stimulate new ideas for collaborations, and we can hear about them next year in Denver, Colorado!

We'd like to extend our special thanks to Neil Reid for his ongoing support and guidance throughout the planning process. We also want to thank our sponsors IMPLAN, the China Data Institute, and the International Journal of Urban Sciences.

Enjoy the Premier NARSC Virtual Conference.

John Sporing, Local Organizer  
Soomi Lee, Program Chair

### Room Host Emails

**IMPLAN Room:** [NARSC.IMPLAN@gmail.com](mailto:NARSC.IMPLAN@gmail.com)

**China Data Institute Room:** [NARSC.CDI@gmail.com](mailto:NARSC.CDI@gmail.com)

**Isard Room:** [NARSC.Isard@gmail.com](mailto:NARSC.Isard@gmail.com)

**Alonso Room:** [NARSC.Alonso@gmail.com](mailto:NARSC.Alonso@gmail.com)

**Boyce Room:** [NARSC.Boyce@gmail.com](mailto:NARSC.Boyce@gmail.com)

**Hewings Room:** [NARSC.Hewings@gmail.com](mailto:NARSC.Hewings@gmail.com)

**Stough Room:** [NARSC.Stough@gmail.com](mailto:NARSC.Stough@gmail.com)

### Coffee Break Rooms

Tuesday (12 PM-6 PM)

<https://us02web.zoom.us/j/81755652652?pwd=aEZZQm9xQi8wVHJQV25RSERaTIJPZz09>

Wednesday (12 PM-6 PM)

<https://us02web.zoom.us/j/84395631186?pwd=dmlVYTVPpMGtBVTJHcldLTUVPSepmZz09>

Thursday (10 AM-6 PM)

<https://us02web.zoom.us/j/84628772953?pwd=RzdKbkdfD09jWkVWQmV3UE5OQUVEUT09>

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## 2020 Organizing and Program Committee

### Local Arrangements

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

### Program Chair

Soomi Lee, University of La Verne

### Session and Workshop Organizers

Shuming Bao, China Data Institute

Eleni Bardaka, North Carolina State University

Mark Brown, Statistics Canada

Andrea Caragliu, Politecnico di Milano

Abigail Cooke, University at Buffalo

Kevin Credit, University of Chicago

Sandy Dall'erba, University of Illinois - Urbana-Champaign

Michael Delgado, Purdue University

Elizabeth Delmelle, University of North Carolina

Tomaz Dentinho University of the Azores

Kieran Patrick Donaghy, Cornell University

Rachel Franklin, Newcastle University

Rafael Garduno-Rivera, Universidad Panamericana

Marcello Graziano, Southern Connecticut State University

Tao Hu, Harvard University

Myounggu Kang, University of Seoul

Wei Kang, University of California – Riverside

Janet Kohlhase, University of Houston

Karima Kourtiti, Open University, Heerlen, Netherlands

Sarah Low University of Missouri - Columbia

Yuri Mansury, Illinois Institute of Technology

Alan Murray University of California – Santa Barbara

Bruce Newbold McMaster University

Peter Nijkamp, JADS

Isabelle Nilsson University of North Carolina at Charlotte

Yasuhide Okuyama University of Kitakyushu

Carlianne Patrick, Georgia State University

Neil Reid University of Toledo

Sergio Rey, University of California – Riverside

Adam Rose University of Southern California

Yuanzhen Shao, Wuhan University

Daoqin Tong, Arizona State University

Haoying Wang, New Mexico Institute of Mining and Technology

Ran Wei, University of California – Riverside

Stephan Weiler Colorado State University

Yilan Xu, University of Illinois

## **NARSC Graduate Student Paper Competitions**

### **Committee Co-Chairs**

Elizabeth Delmelle, University of North Carolina

Isabelle Nilsson University of North Carolina at Charlotte

### **Reading Committee**

Clio Andris, Georgia Tech

Mallory Avery, University of Pittsburgh

Eleni Bardaka, North Carolina State University

Michael Batty, University College London

Stephen Billings, University of Colorado Boulder

David Boyce, University of Illinois Chicago

Jacopo Canello, University of Groningen

Guangqing Chi, PennState University

Kevin Credit, University of Chicago

Sandy Dall'Erba, University of Illinois Urbana-Champaign

Steven Deller, University of Wisconsin-Madison

Elizabeth Dobis, United States Department of Agriculture

Kieran Donaghy, Cornell University

Bo Feng, Marshall University

Rafael Garduno-Rivera, Universidad Panamericana

Nicholas Irwin, University of Nevada Las Vegas

Wei Kang, University of California Riverside

Janet Kohlhase, University of Houston

Jaewon Lim, University of Nevada Las Vegas

Sarah Low, University of Missouri

Cristina Miller, United States Department of Agriculture

David Plane, University of Arizona

=== Official Time Zone: U.S. Central ===

Dimitra Pyrialakou, West Virginia University

Neil Reid, University of Toledo

Amanda Ross, University of Alabama

Ran Tao, University of South Florida

Jean-Claude Thill, University of North Carolina - Charlotte

Daoqin Tong, Arizona State University

John Winters, Iowa State University



## **NARSC Directory**

### **Voting Members**

Kara Kockelman, President, The University of Texas at Austin  
Haifeng Qian, Councilor-at-Large, 2018-2020, The University of Iowa  
Daoqin Tong, Councilor-at-Large, 2020-2022, Arizona State University  
Amanda Ross, Councilor-at-Large, 2020-2022, University of Alabama  
Jason Brown, Councilor at Large, 2019-2021, Federal Reserve Bank of Kansas City  
Elizabeth Mack, Councilor-at-Large, 2018-2020, Michigan State University  
Bruce Newbold, Canadian RSA, McMaster University  
Sarah A. Low, Mid-Continent RSA, University of Missouri  
Kieran Donaghy, Northeast RSA, Cornell University  
Amanda L. Weinstein, Southern RSA, University of Akron  
Jaewon Lim, Western RSA, University of Nevada, Las Vegas

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

Neil Reid, NARSC Executive Director, University of Toledo  
Andrea Caragliu, RSAI Executive Director, Politecnico di Milano,  
Tomaz Lopes Cavalheiro Ponce Dentinho, Editor-in-Chief, Regional Science Policy & Practice,  
Universidade dos Açores  
Roberta Cappelo, Editor-in-Chief, Papers in Regional Science, Politecnico di Milano  
Tony Grubestic, Immediate Past Chair, Arizona State University

### **2020 Nominations Committee**

Haifeng Qian (Chair), Amanda Ross, and Jason Brown

### **2020 Honors Committee**

Stephan Goetz (Chair), Mark Partridge, Dan Rickman

### **2020 Executive Committee**

Haifeng Qian (Chair), Kara Kockelman, and Neil Reid

### **2020 Ben Stevens Fellowship Committee**

Elizabeth Mack (Chair), Amanda Weinstein, Daoqing Tong, Nicholas Nagle, Steven Deller

### **2020 William Alonso Memorial Prize Committee**

Janet Kolhase (Chair), David Plane, Gordon Mulligan, Roberta Capello

## 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, Georgia	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 14–18, 2023

## Instructions to Session Chairs, Presenters, and Discussants

1. Please adhere to the times printed in the program. Each session presentation is assigned a specific time. If you have a no-show, use the time for a discussion of the proceeding paper(s) or for a recess. Do not shift papers to fill voids, as individuals may want to attend a particular paper.
2. The virtual room will be available approximately 5-10 minutes before the start of each session.
3. When you arrive in the virtual room, please “raise your hand” so that the room host can make you a panelist and allow you to share your screen. The chair is responsible in making sure everyone is present.
4. Most sessions have 4 papers. Session Chairs should allocate 30 minutes to each paper (20 minutes presentation, 5 minutes discussant, and 5 minutes for audience questions/comments). If you have 3 or 5 papers in your session allocate the time accordingly.
5. Hold everyone to the time allotted. If a speaker continues after time has expired, ask those present to join you in thanking the speaker, and announce the next presentation. The audience and the other speakers will respect and support your decision.
6. Please be considerate of the next session by ensuring your session is completed at the appropriate time and that the virtual meeting room is vacated in time for the next session to set up.
7. 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. Discussants are listed 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. Organized sessions may have allocated their discussant differently
8. The discussant should come prepared to provide approximately 5 minutes 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 PowerPoint presentation) with your discussant as early as possible, so that the discussant has sufficient time to review it.

=== Official Time Zone: U.S. Central ===

9. If there are any technology issues, please contact your room host. Emails are listed below:

## **Room Host Emails**

**IMPLAN Room:** [NARSC.IMPLAN@gmail.com](mailto:NARSC.IMPLAN@gmail.com)

**China Data Institute Room:** [NARSC.CDI@gmail.com](mailto:NARSC.CDI@gmail.com)

**Isard Room:** [NARSC.Isard@gmail.com](mailto:NARSC.Isard@gmail.com)

**Alonso Room:** [NARSC.Alonso@gmail.com](mailto:NARSC.Alonso@gmail.com)

**Boyce Room:** [NARSC.Boyce@gmail.com](mailto:NARSC.Boyce@gmail.com)

**Hewings Room:** [NARSC.Hewings@gmail.com](mailto:NARSC.Hewings@gmail.com)

**Stough Room:** [NARSC.Stough@gmail.com](mailto:NARSC.Stough@gmail.com)

## Conference Highlights and Business Meetings

### Monday, November 9

**Workshop: Spatial Data Analysis for Social Sciences: Data, Technology and Applications.**

Monday Nov 9

10:00 AM-1:00 PM | Room: Boyce. **Pre-registration required**

**Workshop: Spatial Data Analysis with PySAL.**

10:00 AM-5:00 PM | Room: China Data Institute. **Pre-registration Required**

**The Regional Science Academy (TRSA) Special Session: Talk Table on 'The Post-Corona Space-Economy'.**

10:00 AM-12:30 AM | Room: IMPLAN

**NARSC Council Meeting**

12:00 PM-2:00 PM | Room: Hewings (**By invitation only**)

**Diversity and Inclusion at NARSC: Survey Results.**

1:00 PM-2:00 PM | Room: IMPLAN

### Tuesday, November 10

**RSAI Fellows Lecture - The Legacy of Redlining: A Spatial Dynamics Perspective.**

10:00 AM-11:40 AM | Room: IMPLAN. Speaker: **Sergio Rey**, University of California – Riverside

**Student Paper Competition Session: Agricultural Practices & Economic Development.**

4:00 PM-5:40 PM | Room: IMPLAN

**Memorial Session in Honor of Sid Saltzman.** 6:00 PM-8:00 PM | Room: IMPLAN

### Wednesday, November 11

**NARSC Presidential Lecture - Self-driving & All-electric: Anticipating the Travel, Trade, & Energy Impacts of Autonomous Trucks & Cars for US Markets.**

10:00 AM-11:40 AM | Room: IMPLAN. Speaker: **Kara Kockelman**, University of Texas at Austin

**Student Paper Competition Session: Inequalities.**

12:00 PM-1:40 PM | Room: Isard

**Student Paper Competition: Transportation.**

2:00 PM-3:40 PM | Room: China Data Institute

**Student Paper Competition Session: Health and the Environment.**

4:00 PM-5:40 PM | Room: Boyce

**Virtual Wine Tasting.**

6:00 PM-7:15 PM | Room: IMPLAN. **Pre-registration required**

**Thursday, November 12**

**Student Paper Competition: Economic Development & Growth.**

10:00 AM-11:40 AM | Room: Hewings

**Friday, November 13**

**Alonso Book Award Session.**

**Location Covering Models** by Alan Murray and Richard Church (Springer 2018). Speaker:

**Richard Church**, University of California, Santa Barbara.

10:00 AM-11:30 AM | Room: IMPLAN.

**NARSC Award Session.**

4:00 PM-5:40 PM | Room: IMPLAN



## **RSAI Fellows Lecture**

Tuesday, November 10

10:00AM-11:40AM

Room: IMPLAN

The Legacy of Redlining: A Spatial Dynamics Perspective

Sergio Rey, University of California – Riverside



Chair, Geoffrey Hewings, University of Illinois-Urbana Champaign





**THE NORTH AMERICAN REGIONAL SCIENCE COUNCIL**

## **NARSC Presidential Lecture**

Wednesday, November 11

10:00AM-11:40AM

Room: IMPLAN

**Self-driving & All-electric: Anticipating the Travel, Trade, & Energy**

**Impacts of Autonomous Trucks & Cars for US Markets**

**Kara Kockelman, University of Texas at Austin**



**Chair: Haifeng Qian, University of Iowa**



**THE NORTH AMERICAN REGIONAL SCIENCE COUNCIL**

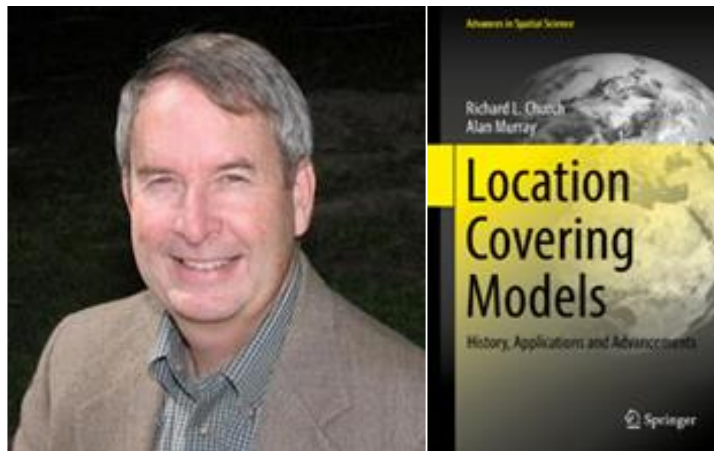
## **Alonso Book Award Lecture**

Friday, November 13

10:00AM – 11:30AM

Location Covering Models

Richard Church, University of California-Santa Barbara



Chair: Janet Kohlhasse, University of Houston

## **Monday, November 9, 2020**

**[CANCELLED]** Workshop: Economic Modeling with TERM-USA Using Customized RunGEM

**Organizers:** John Madden, Victoria University; Louis Roos, Victoria University

**10:00 AM-1:00 PM**

### **1. Workshop: Spatial Data Analysis for Social Sciences: Data, Technology and Applications**

**Monday Nov 9 | 10:00 AM-1:00 PM | Room: Boyce**

*\* FREE REGISTRATION. [Registration required.](#)*

**Co-sponsors:** Geo-computation Center for Social Sciences, Wuhan University; China Data Institute

**Instructors:** Shuming Bao, China Data Institute; Tao Hu, Center for Geographical Analysis, Harvard University; Yuanzhen Shao, Geo-computation Center for Social Sciences, Wuhan University

**Link to more information:** [Spatial Data Analysis for Social Sciences](#)

**10:00 AM-5:00 PM**

### **2. Workshop: Spatial Data Analysis with PySAL**

**Monday Nov 9 | 10:00 AM-5:00 PM | Room: China Data Institute**

*[Registration Required.](#)*

**Instructors:** Sergio Rey, University of California - Riverside; Wei Kang, University of California – Riverside

**Link to more information:** [Spatial Data Analysis with PySAL](#)

**10:00 AM-12:30 PM**

**3. The Regional Science Academy (TRSA) Special Session**

**Monday Nov 9 | 10:00 AM-12:30 AM | Room: IMPLAN**

<https://us02web.zoom.us/j/88928680829?pwd=QUYrcDZ4WTI4OGx6N2tHVHlCRXR6Zz09>

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

This session provides an innovative interaction between prominent speakers and a wider, orchestrated audience online connected all over the world. Issues to be addressed:

- Will the COVID-19 pandemics change our views on urban density and design? - Will suburbs become more attractive residential areas?
- Does COVID-19 provide evidence for a close connection between urban poverty and urban health?
- Will there be a drastic change in the high-mobility trend of the past decades?
- Will in the aftermath of the corona crisis the old-fashioned concept of the `death of distance` in a digital society gain a new momentum?

**PART I. The Post-Corona Space-Economy | 10:00 AM-11:50 AM**

**Chair:** Karima Kourtit, Open University of the Netherlands, Heerlen, The Netherlands

**Welcome:** Peter Batey, President, The Regional Science Academy (TRSA)

**Keynote speakers:**

- Saskia Sassen, Columbia University
- Sameh Naguib Wahba, Global Director for the World Bank's Urban, Disaster Risk Management, Resilience and Land Global Practice
- Helen Couclelis, University of California, Santa Barbara

Panel discussion with Next-Gen scholars

**Animator:** Jaewon Lim, University of Nevada, Las Vegas

**Young Panelists:**

- Ana Barufi, University of Sao Paulo, Sao Paulo, Brazil
- Umut Turk, Abdullah Gul University, Kayseri, Turkey
- Marina Toger, Uppsala University, Uppsala, Sweden
- Andrea Caragliu, Politecnico di Milano, Milan, Italy

Final word by the keynote speakers

Closure and Ways forward:

- Eduardo Haddad, University of Sao Paulo, Sao Paulo, Brazil

- Peter Nijkamp, Open University of the Netherlands, Heerlen, The Netherlands

**PART II. The TRSA Great Minds Series | 11:50 AM-12:30 PM**

**Les Curry: His work and Scientific Relevance**

**Chair:** Kingsley Haynes, Schar School of Policy and Government, George Mason University

**Speaker:** Daniel Griffith, The University of Texas, Dallas, on

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

**4. NARSC Council Meeting**

**Monday Nov 9 | 12:00 PM-2:00 PM | Room: Hewings**

**Organizer:** Neil Reid, University of Toledo

**1:00 PM-2:00 PM**

**5. Diversity and Inclusion at NARSC: Survey Results**

**Monday Nov 9 | 1:00 PM-2:00 PM | Room: IMPLAN**

<https://us02web.zoom.us/j/83531096608?pwd=ZjRvdFJ5K1FLTk83SzVKUzhKKzNPdz09>

**Organizers:** Sandy Dall'erba, University of Illinois - Urbana-Champaign; Daoqin Tong, Arizona State University; Yuri Mansury, Illinois Institute of Technology; Neil Reid, University of Toledo; Carlianne Patrick, Georgia State University; Michael Delgado, Purdue University; Sarah A. Low, University of Missouri - Columbia; Yilan Xu, University of Illinois; Eleni Bardaka, North Carolina State University

## **Tuesday, November 10, 2020**

**COFEE BREAK ROOM (12 PM – 6 PM)**

<https://us02web.zoom.us/j/81755652652?pwd=aEZZQm9xQi8wVHJQV25RSERaTlJPZz09>

**10:00 AM-11:40 AM**

### **6. The Fellows Lecture - The Legacy of Redlining: A Spatial Dynamics Perspective**

**Tuesday Nov 10 | 10:00 AM-11:40 AM | Room: IMPLAN**

<https://us02web.zoom.us/j/88662188602?pwd=dnVwc2gySzBqZ1BzVHlqRC84YlJrUT09>

**Speaker:** Sergio Rey, University of California - Riverside

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

**12:00 PM-1:40 PM**

### **7. Covid-19: Behavioral Patterns of a Pandemic**

**Tuesday Nov 10 | 12:00 PM-1:40 PM | Room: Boyce**

<https://us02web.zoom.us/j/87189142908?pwd=MXVvT0xWUFFVUlhLd1pmTDhWQ3ZLdz09>

**Chair:** Susan Ann Burtner, University of California - Santa Barbara

- How's the online grocery shopping behavior reshaped with the influence of COVID-19? Evidence from a preliminary investigation Hui Shen — University of Illinois - Chicago, Jane Lin — University of Illinois - Chicago
- The effects of COVID-19 lockdown on urban felonies: a case study for the Metropolitan Area of Monterrey, Mexico Antonio Ludovico Petz — Tecnologico de Monterrey, Miguel Flores — Tecnologico de Monterrey, Roberto Ponce — Tecnologico de Monterrey
- How government policies influence people's behaviors across the U.S during the COVID 19 outbreak? Seunghun Chung — Ohio State University, Elena Irwin — Ohio State University
- COVID-19 and minimizing spatial interactions in micro-spatial environments Susan Ann Burtner — University of California - Santa Barbara, Alan Murray — University of California - Santa Barbara

#### **Discussants:**

- Antonio Ludovico Petz, Tecnologico de Monterrey
- Seunghun Chung, Ohio State University
- Susan Ann Burtner, University of California - Santa Barbara
- Hui Shen, University of Illinois - Chicago

## **8. Formal Paper Session: Regional and Rural Development I: Urban and Regional Development**

**Tuesday Nov 10 | 12:00 PM-1:40 PM | Room: China Data Institute**

<https://us02web.zoom.us/j/85013198367?pwd=ZW52Y1Fjc0ttUTBlU2h1NEZGM1QvZz09>

**Organizers:** Stephan Weiler, Colorado State University; Sarah A. Low, University of Missouri - Columbia

**Chair:** Jason P. Brown, Federal Reserve Bank of Kansas City

- Young Firms and Regional Economic Growth Dave Shideler — Heartland Forward, Jonas Crews — Heartland Forward, Ross DeVol — Heartland Forward, Richard Florida — University of Toronto
- Conflict or Sorting? Race Heterogeneity and Funding for Public Services in US Cities Austin J Landini — Colorado State University
- Towards Regenerative Development: Adopting principles and measuring outcomes in real estate projects Andrew G. Mueller — University of Denver
- Persistent, Positive Income Shocks and Debt: Quasi-Natural Experimental Evidence from the U.S. Shale Revolution Daniel Berkowitz — University of Pittsburgh, Andrew Boslett — University of Rochester Medical Center, Jason P Brown — Federal Reserve Bank of Kansas City, Jeremy Weber — University of Pittsburgh

### **Discussants:**

- Austin Daniel Sanders, USDA Economic Research Service
- Jason P Brown, Federal Reserve Bank of Kansas City
- Austin J Landini, Colorado State University
- Dave Shideler, Heartland Forward

## **9. Knowledge Network and Spillover**

**Tuesday Nov 10 | 12:00 PM-1:40 PM | Room: Hewings**

<https://us02web.zoom.us/j/81448880651?pwd=MFdCTDhjQ0NYNitaS9BZmozRW1MUT09>

**Chair:** Alain N'Gauran, Jean Monnet University

- High-speed Railway and Collaborative Innovation: Evidence from University Patents in China Jingbo Cui — Duke Kunshan University, Tianqi Li — University of North Carolina - Chapel Hill, Zhenxuan Wang — Duke University
- Assessing the collaboration and network additionality of innovation policies: a counterfactual approach to the French cluster policy Alain N'Gauran — Jean Monnet University, Corinne Autant-Berand — Jean Monnet University

### **Discussants:**

- Alain N'Gauran, Jean Monnet University

- Jingbo Cui, Duke Kunshan University

## **10. Formal Paper Session: Demographic Transitions: Regions, Cities, and Neighborhoods I: Life in the City**

**Tuesday Nov 10 | 12:00 PM-1:40 PM | Room: IMPLAN**

<https://us02web.zoom.us/j/81790185378?pwd=L3JUY3VhbGsxeWNNZTgyQ09BYUIxQT09>

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

**Chair:** Abigail Cooke, University at Buffalo

- Will reducing land use regulations reduce urban inequality? Juan Carlos Lopez — University of Denver
- The Language of Neighborhood Change and Stability: Text Analysis of Property Advertisements Elizabeth Delmelle — University of North Carolina - Charlotte, Isabelle Nilsson — University of North Carolina - Charlotte
- Life Satisfaction in the Neighbourhood: Evidence from the Canadian Community Health Survey Mark Brown — Statistics Canada, Jonathan Fonberg — Statistics Canada, Grant Schellenberg — Statistics Canada, River Yang — Statistics Canada
- Demographic and Behavioral Characteristics of Individuals with Global, Local or Glocal Connectivity Patterns Xiaofan Liang — Georgia Institute of Technology, Seolha Lee — Georgia Institute of Technology, Clio Andris — Georgia Institute of Technology, Hanzhou Chen — Pennsylvania State University, Benjamin de la Pena — Agile City Partners

### **Discussants:**

- Elizabeth Delmelle, University of North Carolina - Charlotte
- Mark Brown, Statistics Canada
- Xiaofan Liang, Georgia Institute of Technology
- Juan Carlos Lopez, University of Denver

## **11. Transportation VI: Transportation Disadvantage and Welfare**

**Tuesday Nov 10 | 12:00 PM-1:40 PM | Room: Isard**

<https://us02web.zoom.us/j/86901699695?pwd=RjFzUUFEbHNhYzZLcWVQdmdUekVJZz09>

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

- Benefit spillovers and subsidy exporting in inter-regional public transport provision Daniel Hörcher — Imperial College London, Bruno De Borger — University of Antwerp, Daniel Joseph Graham — Imperial College London
- Does Pupil Transportation Lower Absenteeism? Examining the Causal Link between Pupil Transportation and Absenteeism Christopher Rick — Syracuse University, Amy Schwartz — Syracuse University



- LEVERAGING GIS TO DETERMINE THE NEXUS BETWEEN STUDENT ABSENTEEISM AND TRANSPORTATION ACCESSIBILITY USING A BAYESIAN NETWORK Celeste N Chavis — Morgan State University, Anthony Saka — Morgan State University
- Transport Disadvantage in the U.S. Metro, Micro, and Rural Areas: A Comparison of Research Approaches Dimitra Pyrialakou — West Virginia University, Mitchell Barna — West Virginia University, Amrit Williams — West Virginia University

**Discussants:**

- Christopher Rick, Syracuse University
- Celeste N Chavis, Morgan State University
- Dimitra Pyrialakou, West Virginia University
- Daniel Hörcher, Imperial College London

**12. Colors of Urban Planning, Green and Blue**

**Tuesday Nov 10 | 12:00 PM-1:40 PM | Room: Stough**

<https://us02web.zoom.us/j/84758435421?pwd=cjQ4eS9uYUMxMEg0a0J0bIA4U05NQT09>

**Chair:** Kieran P. Donaghy, Cornell University

- Growing Denser and Greener: the Tale of the "Emerald City" John Carruthers — Cornell University, Hanxue Wei — Cornell University
- Blue Bubbles: Sizes & Scale Mismatches in Blue Economy Paradigms Marcello Graziano — Southern Connecticut State University, Karen Alexander — University of Tasmania, Scott McGrane — University of Strathclyde, Grant Allan — Strathclyde University, Evangelia Lema — Northwood University
- What happens when a massive ecological rehabilitation program ends? Evidence from China using a natural experiment. Anthony Howell — Arizona State University

**Discussants:**

- Marcello Graziano, Southern Connecticut State University
- Anthony Howell, Arizona State University
- Kieran P. Donaghy, Cornell University

**2:00 PM-3:40 PM**

**13. Covid-19: Impacts on Employment**

**Tuesday Nov 10 | 2:00 PM-3:40 PM | Room: Boyce**

<https://us02web.zoom.us/j/87189142908?pwd=MXVvT0xWUFFVUlhLd1pmTDhWQ3ZLdz09>

**Chair:** Jaewon Lim, University of Nevada - Las Vegas

- Use Google Trends to Predict Initial Claims of Unemployment Insurance During the COVID-19 Pandemic Zheng Tian — Pennsylvania State University, Stephan Goetz — Pennsylvania State University
- Employment Impacts of the COVID-19 Pandemic across Metropolitan Status and Size Seung Jin Cho — Iowa State University, Jun Yeong Lee — Iowa State University, John V. Winters — Iowa State University
- Economic impacts of the Covid-19 outbreak on the automotive sector of the Brazilian economy Gerlane Gonçalves de Andrade — Federal University of Juiz de Fora, Admir Antonio Betarelli Junior — Federal University of Juiz de Fora, Weslem Rodrigues Faria — Federal University of Juiz de Fora, Carlos Alberto Gonçalves da Silva — State University of Rio de Janeiro
- Disconnected Regions facing Pandemic Disease: Economic Impact on Tourism Industry and Recovery Path Jaewon Lim — University of Nevada - Las Vegas

**Discussants:**

- Seung Jin Cho, Iowa State University
- Gerlane Gonçalves de Andrade, Federal University of Juiz de Fora
- Jaewon Lim, University of Nevada - Las Vegas
- Zheng Tian, Pennsylvania State University

**14. Transportation II: Transportation Networks and Optimization**

**Tuesday Nov 10 | 2:00 PM-3:40 PM | Room: China Data Institute**

<https://us02web.zoom.us/j/85013198367?pwd=ZW52Y1FJc0ttUTBlU2h1NEZGM1QvZz09>

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

- Ridehailing, Regulation, and Urban Traffic: A New York City Case Sicheng Wang — Rutgers University.
- A heuristic algorithm for railways network expansion: a case study of Iranian railways Amirali Zarrinmehr — University of Mazandaran, Hashem Kalantari — Iranian Railways
- A hill climbing approach to find optimal public transit routes configuration Amirali Zarrinmehr — University of Mazandaran
- Investigating city parking policies for autonomous vehicles and their network-level effects on travel demand Md. Mehedi Hasnat — North Carolina State University, Eleni Bardaka — North Carolina State University

**Discussants:**

- Amirali Zarrinmehr, University of Mazandaran
- Md. Mehedi Hasnat, North Carolina State University
- Sicheng Wang, Rutgers University
- Dingtong Yang, University of California - Irvine

## **15. Neighborhood Change**

**Tuesday Nov 10 | 2:00 PM-3:40 PM | Room: Hewings**

<https://us02web.zoom.us/j/81448880651?pwd=MFdCTDhjQ0NYNItaeS9BZmozRW1MUT09>

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

- Using Publicly Available Data to Understand Neighborhood Change and Mitigate Gentrification: A Fairfax County, VA Case Study Teja Pristavec — University of Virginia, Brandon Kramer — University of Virginia, Joshua Goldstein — University of Virginia
- Can a massive and intensified short training on civic education construct individual social capital? An experience from Indonesia Budy P Resosudarmo — Australian National University, Rus'an Nasrudin — University of Indonesia
- Gentrification and Schools: Evidence from New York City Sydney Schreiner — Ohio State University

### **Discussants:**

- Budy P. Resosudarmo, Australian National University
- Sydney Schreiner, Ohio State University
- Teja Pristavec, University of Virginia

## **16. Formal Paper Session: Regional and Rural Development II: Migration and Public Service Provision**

**Tuesday Nov 10 | 2:00 PM-3:40 PM | Room: IMPLAN**

<https://us02web.zoom.us/j/81790185378?pwd=L3JUY3VhbGsxeWNNZTgyQ09BYUIxQT09>

**Organizers:** Stephan Weiler, Colorado State University; Sarah A. Low, University of Missouri – Columbia

**Chair:** Kristopher Deming, Colorado State University

- Examining return migration and community preferences in rural northwestern Missouri Mallory Rahe — University of Missouri, Sarah A. Low — University of Missouri - Columbia
- Opportunity and Migration in Rural American Counties Nicholas Kacher — Scripps College
- Quantitative and Qualitative Findings from a Regional Survey of Community Leaders regarding Rural Wealth and Health Care Provision Maria Kuhns — University of Missouri - Columbia, John Pender — USDA Economic Research Service, Sarah A. Low — University of Missouri - Columbia
- Does the Earned Income Tax Credit Birth New Establishments? Kristopher Deming — Colorado State University

**Discussants:**

- Nicholas Kacher, Scripps College
- Mallory Rahe, University of Missouri
- Kristopher Deming, Colorado State University
- Sarah A. Low, University of Missouri - Columbia

**17. Formal Paper Session: Demographic Transitions: Regions, Cities, and Neighborhoods II: Migration Decisions**

**Tuesday Nov 10 | 2:00 PM-3:40 PM | Room: Isard**

<https://us02web.zoom.us/j/86901699695?pwd=RjFzUUFEbHNhYzZLcWVQdmdUekVJZz09>

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

**Chair:** Abigail Cooke, University at Buffalo

- High School Graduates and Education Migration Decisions: How Far Are Chilean Students Willing to Go? Rocio Valdebenito — University of Illinois - Urbana-Champaign, Sandy Dall'erna — University of Illinois - Urbana-Champaign, Mary Arends-Kuenning — University of Illinois - Urbana-Champaign, William Ridley — University of Illinois - Urbana-Champaign
- Aging, Driving and Commute Distance and Migration Bruce Newbold — McMaster University
- Leaving the Laborforce, Living Longer, and Locational Choice Ayoung Kim — Mississippi State University, Brigitte Waldorf — Purdue University

**Discussants:**

- Bruce Newbold, McMaster University
- Ayoung Kim, Mississippi State University
- Rocio Valdebenito, University of Illinois - Urbana-Champaign

**18. Regional Economic Resilience**

**Tuesday Nov 10 | 2:00 PM-3:40 PM | Room: Stough**

<https://us02web.zoom.us/j/84758435421?pwd=cjQ4eS9uYUMxMEg0a0J0bIA4U05NQTO9>

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

- Strong and Weak Linkages of Social Capital for Natural Disaster Resilience KIYOMI KAWAMOTO — Toyo University, Eric Yamashita — University of Hawaii - Manoa
- Resilience Dividends in Cedar Rapids Juan Francisco Fung — NIST, Jennifer Helgeson — National Institute of Standards and Technology, Harvey Cutler — Colorado State University, David Webb — National Institute of Standards and Technology, Cheyney O'Fallon — National Institute of Standards and Technology

- Inclusive Economic Resilience: Examining Intra-Regional Variations of Municipal Economic Recovery during the Great Recession Soomi Lee — University of La Verne, Shu Wang — University of Michigan

**Discussants:**

- Shu Wang, University of Michigan
- KIYOMI KAWAMOTO, Toyo University
- Juan Francisco Fung, NIST

**4:00 PM-5:40 PM**

**19. Natural Disasters: Planning and Recovery**

**Tuesday Nov 10 | 4:00 PM-5:40 PM | Room: Boyce**

<https://us02web.zoom.us/j/87189142908?pwd=MXVvT0xWUFFVUlhLd1pmTDhWQ3ZLdz09>

**Chair:** Qin Fan, California State University - Fresno

- Multilevel Climate Governance, Anticipatory Adaptation, and the Vulnerability-Readiness Nexus Hyun Kim — Chungnam National University
- Community Based Organizations (CBOs) towards earthquake management of Dhaka city in the light of the experiences from Japan Nazia Hossain — Bangladesh University of Engineering and Technology (BUET)
- Developing a Framework of Spatial Computable General Equilibrium Model for Natural Disaster in South Korea Euijune Kim — Seoul National University, Hojune Lee — Seoul National University, Dongyeong Jin — Seoul National University
- Flood Risk and Floodplain Management Planning: Examining Factors Driving Community Rating System Participation Qin Fan — California State University - Fresno, Meri Davlasheridze — Texas A&M University at Galveston

**Discussants:**

- Nazia Hossain, Bangladesh University of Engineering and Technology (BUET)
- Hojune Lee, Seoul National University
- Qin Fan, California State University - Fresno
- Hyun Kim, Chungnam National University

**20. Formal Paper Session: Regional and Rural Development III: Industrial Composition and Product Differentiation**

**Tuesday Nov 10 | 4:00 PM-5:40 PM | Room: China Data Institute**

<https://us02web.zoom.us/j/85013198367?pwd=ZW52Y1FJc0ttUTBlU2h1NEZGM1QvZz09>

**Organizers:** Stephan Weiler, Colorado State University; Sarah A. Low, University of Missouri - Columbia

**Chair:** Timothy Slaper, Indiana University

- Industrial Composition, Self-Employment and Rural Economies and the effect of the spread of COVID-19 Heather Stephens — West Virginia University, Mark Partridge — Ohio State University, Zachary Keeler — West Virginia University
- Predictors of Future Regional Industrial Evolution: Performance Pre- and Post-Great Recession and Regional Characteristics Timothy Slaper — Indiana University, Riley Zipper — Indiana University
- We Love Green: Households' Valuation of Farming Practices and Challenges of Signalling Marine Coinon — University of Burgundy and, Rachel Guillain — University of Burgundy, Sophie Legras — INRA - Dijon
- Variety, Scale and Know-how: Does product differentiation explain the urban-rural performance divide? Timothy Slaper — Indiana University

**Discussants:**

- Timothy Slaper, Indiana University
- Heather Stephens, West Virginia University
- Claire Zheng, Indiana University
- Rachel Guillain, University of Burgundy

**21. Formal Paper Session: Spatial Dimension of Energy Transition Policies, Practices, and Technologies**

**Tuesday Nov 10 | 4:00 PM-5:40 PM | Room: Hewings**

<https://us02web.zoom.us/j/81448880651?pwd=MFdCTDhjQ0NYNitaS9BZmozRW1MUT09>

**Organizers:** Andrea A.G. Caragliu, Politecnico di Milano; Marcello Graziano, Southern Connecticut State University

**Chair:** Marcello Graziano, Southern Connecticut State University

- Energy efficiency-enhancing policies and firm performance: Evidence from the paper and glass industries in Italy Andrea A.G. Caragliu — Politecnico di Milano, Elena R — Ricerca sul Sistema Energetico
- International collaboration in green energy technologies: Empirical evidence on OECD and BRIIC countries Nicoletta Corrocher — Bocconi University, Maria Luisa Mancusi — Catholic University of Milan
- The wider economic benefits of power grids resilience: a combined spatial-quasi CGE approach. Marcello Graziano — Southern Connecticut State University, Adam Gallaher — University of Connecticut, Peter Gunther — University of Connecticut

**Discussants:**

- Nicoletta Corrocher, Bocconi University
- Marcello Graziano, Southern Connecticut State University
- Andrea A.G. Caragliu, Politecnico di Milano

**22. Student Paper Competition Session: Agricultural Practices & Economic Development**  
**Tuesday Nov 10 | 4:00 PM-5:40 PM | Room: IMPLAN**

<https://us02web.zoom.us/j/81790185378?pwd=L3JUY3VhbGsxeWNNZTgyQ09BYUIxQT09>

**Organizers:** Isabelle Nilsson, University of North Carolina - Charlotte; Elizabeth Delmelle, University of North Carolina - Charlotte

**Chair:** Neil Reid, University of Toledo

- Do peer farms affect cost efficiency in Korean rice farms? Sunhyung Min — Seoul National University, Kwansoo Kim — Seoul National University
- Assessing the Impact of Agricultural Transport Costs on Industrial Agglomeration PEDRO HERRERA CATALÁN — AUTONOMOUS UNIVERSITY OF MADRID
- From Brewer to Baker: Transformative Praxis through Upcycling Brewers' Spent Grain in Central Texas Delorean S. Wiley — Texas State University - San Marcos, Colleen Myles — Texas State University - San Marcos

**Discussants:**

- Elizabeth A Dobis, USDA Economic Research Service
- Stephan Goetz, Pennsylvania State University
- Neil Reid, University of Toledo

**23. Policing and Criminality**

**Tuesday Nov 10 | 4:00 PM-5:40 PM | Room: Isard**

<https://us02web.zoom.us/j/86901699695?pwd=RjFzUUFEbHNhYzZLcWVQdmdUekVJZz09>

**Chair:** Nelly Exbrayat, University of St-Etienne

- Racial Bias in Police Interventions Tauã Magalhães Vital — Federal University of Juiz de Fora, Eduardo Simões de Almeida — Federal University of Juiz de Fora
- To Be Blunt: The High Rates of Criminality from Marijuana Legalization Gina Ayana Price — Ohio State University
- The Impact of Municipal Police on Crime in Brazil: an approach based on spatial LASSO difference-in-difference Tauã Magalhães Vital — Federal University of Juiz de Fora, Eduardo Almeida — Federal University of Juiz de Fora
- City size and crime: empirical evidence from Ecuador Nelly Exbrayat — University of St-Etienne, Andrea Aguirre-Sanchez — University of St-Etienne

**Discussants:**

- Gina Ayana Price, Ohio State University
- Tauã Magalhães Vital, Federal University of Juiz de Fora
- Nelly Exbrayat, University of St-Etienne
- Antonio Ludovico Petz, Tecnológico de Monterrey

## **24. Environmental Issues: Air and Water Pollution**

**Tuesday Nov 10 | 4:00 PM-5:40 PM | Room: Stough**

<https://us02web.zoom.us/j/84758435421?pwd=cjQ4eS9uYUMxMEg0a0J0bIA4U05NQOT09>

**Chair:** Daniel Griffith, University of Texas - Dallas

- Empirical Analysis for the Causes of Particular Matters in Korea Hyunji Lee — Seoul National University, Insu Chang — Korea Institute for Health and Social Affairs, Jaymo Kim — University of Chicago, Brian H.S. Kim — Seoul National University
- Prediction of Particular Matters 2.5 using Machine Learning Algorithm: Case of Seoul Metropolitan Area in Korea Sangwon Choi — Seoul National University, Yoon-Young Choi — Seoul National University, Brian H.S. Kim — Seoul National University
- The Regressive Costs of Drinking Water Contaminant Avoidance Kelly David Hyde — University of Pittsburgh
- Assay measurement error and the geographic distribution of contaminants: Syracuse heavy metal soil and dust loading uncertainties Daniel Griffith — University of Texas - Dallas, Yongwan Chun — The University of Texas at Dallas

### **Discussants:**

- Sangwon Choi, Seoul National University
- Kelly David Hyde, University of Pittsburgh
- Daniel Griffith, University of Texas - Dallas
- Hyunji Lee, Seoul National University

**6:00 PM-8:00 PM**

## **25. Memorial Session in Honor of Sid Saltzman**

**Tuesday Nov 10 | 6:00 PM-8:00 PM | Room: IMPLAN**

<https://us02web.zoom.us/j/81434414035?pwd=SEd6Uk15M1FlZmdjaGZ0cXYvSTdydz09>

**Organizers:** Yuri Mansury, Illinois Institute of Technology; Kieran Patrick Donaghy, Cornell University

**Chair:** Yuri Mansury, Illinois Institute of Technology



## **Wednesday, November 11, 2020**

**COFEE BREAK ROOM (12 PM – 6 PM)**

<https://us02web.zoom.us/j/84395631186?pwd=dmVYTvpMGtBVTJHcldLTUVPSepmZz09>

**10:00 AM-11:40 AM**

**26. Presidential Lecture - Self-driving & All-electric: Anticipating the Travel, Trade, & Energy Impacts of Autonomous Trucks & Cars for US Markets**

**Wednesday Nov 11 | 10:00 AM-11:40 AM | Room: IMPLAN**

<https://us02web.zoom.us/j/88164639759?pwd=NXdDdzlieGdtMzl2YzVSVMZIRlJtdz09>

**Chair:** Haifeng Qian, University of Iowa

**Speaker:** Kara M. Kockelman, University of Texas - Austin

**12:00 PM-1:40 PM**

**27. Transportation III: Mobility and the Environment**

**Wednesday Nov 11 | 12:00 PM-1:40 PM | Room: Boyce**

<https://us02web.zoom.us/j/88084790468?pwd=L0poSithdEhCaDhid21tVWtQclBGUT09>

**Chair:** Saharsh Agarwal, Carnegie Mellon University

- The Effect of Driving Restrictions on Air Quality in Chinese Cities Wenbo Meng — University of Colorado - Boulder
- Impacts of Fuel Price on Greenhouse Gas Emissions from Interstate Freight Transportation DA FEI — Rutgers University
- Bike-sharing systems in world cities - what will Web API data tell us? Michal Dziecielski — Adam Mickiewicz University in Poznan
- The Impact of Ride-hailing Services on Congestion: Evidence from Indian Cities Saharsh Agarwal — Carnegie Mellon University, Deepa Mani — , Rahul Telang — Carnegie Mellon University

**Discussants:**

- DA FEI, Rutgers University
- Michal Dziecielski, Adam Mickiewicz University in Poznan
- Saharsh Agarwal, Carnegie Mellon University
- Wenbo Meng, University of Colorado - Boulder

**28. Regional and Rural Development IV: Resilient Rural Development**  
**Wednesday Nov 11 | 12:00 PM-1:40 PM | Room: China Data Institute**

<https://us02web.zoom.us/j/88271718059?pwd=SGxVcElEcjEzVi8wTkJrLzFINnI6QT09>

**Organizers:** Stephan Weiler, Colorado State University; Sarah A. Low, University of Missouri - Columbia

**Chair:** John Pender, USDA Economic Research Service

- Economic Targeting with Inclusion of Potential Automation Impacts: Differences in Metropolitan and Non-Metropolitan Nevada Thomas Harris — University of Nevada, Reno
- Building resilience against weather shocks: Should we go local? Noé J Nava — University of Illinois - Urbana-Champaign, William Ridley — University of Illinois - Urbana-Champaign
- Climate change and the spatial distribution of population and economic activity David Castells-Quintana — Universidad Autónoma de Barcelona, Tom McDermott — National University of Ireland, Galway, Melanie Krause — University of Hamburg
- Impacts of Broadband Access and USDA Broadband Programs on Telework in Rural America John Pender — USDA Economic Research Service, Devika Mahoney-Nair — University of Virginia, Joshua Goldstein — University of Virginia, Teja Pristavec — University of Virginia, Neil Kattampallil — University of Virginia, Stephanie Shipp — University of Virginia, Aaron Schroeder — University of Virginia, Sallie Keller — University of Virginia, Zachary Keeler — West Virginia University

**Discussants:**

- Sarah A. Low, University of Missouri - Columbia
- Thomas Harris, University of Nevada, Reno
- John Pender, USDA Economic Research Service
- David Castells-Quintana, Universidad Autónoma de Barcelona

**29. Fiscal Policy and Politics**  
**Wednesday Nov 11 | 12:00 PM-1:40 PM | Room: Hewings**

<https://us02web.zoom.us/j/85858303367?pwd=SjlXYlgrUkd3cUxKVEV5MGdCM3k2UT09>

**Chair:** Alessandra Faggian, Gran Sasso Science Institute

- 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

- Government Spending Multiplier and Regional Economic Growth: A General Equilibrium Analysis Raphael Pinto Fernandes — University of São Paulo, Eduardo Haddad — University of Sao Paulo
- Fuel tax, Cross Subsidy and Transport: Assessing the Effects on Income and Consumption Distribution in Brazil Andressa Lemes Proque — Federal University of Juiz de Fora, Admir Antonio Betarelli Junior — Federal University of Juiz de Fora, Fernando Salgueiro Perobelli — Federal University of Juiz de Fora
- One country, two populist parties. Voting patterns of the 2018 Italian elections and their determinants Alessandra Faggian — Gran Sasso Science Institute, Marco Modica — Gran Sasso Science Institute, Félix Modrego — Universidad Católica del Norte, Giulia Urso — Gran Sasso Science Institute

**Discussants:**

- Raphael Pinto Fernandes, University of São Paulo
- Andressa Lemes Proque, Federal University of Juiz de Fora
- Alessandra Faggian, Gran Sasso Science Institute
- Alicia Chávez, Universidad Católica del Norte

**30. Geography of Healthcare Costs**

**Wednesday Nov 11 | 12:00 PM-1:40 PM | Room: IMPLAN**

<https://us02web.zoom.us/j/87220927716?pwd=L2d1RGVGckdaRStXeGNwY2UyQ3NYUT09>

**Chair:** Julie Marshall, Medical University of South Carolina

- Open Payments and Opioid Overdoses: Provider payments and overdose mortalities in the United States Thomas Keene — Michigan State University, Scott Loveridge — Michigan State University, Brian Kowalkowski — College of Menominee Nation
- Modeling Supply and Demand Hospital Bed Imbalances in Texas and Their Contributing Cultural Factors Michael Tiefelsdorf — The University of Texas at Dallas, Priyanka Vyas — San Jose State University, Amanuel Abuhay — The University of Texas at Dallas
- Diabetes and Oral Health in South Carolina's Medicaid Population Julie Marshall — Medical University of South Carolina, Abigail Kelly — Medical University of South Carolina

**Discussants:**

- Michael Tiefelsdorf, The University of Texas at Dallas
- Julie Marshall, Medical University of South Carolina
- Thomas Keene, Michigan State University

### **31. Student Paper Competition Session: Inequalities**

**Wednesday Nov 11 | 12:00 PM-1:40 PM | Room: Isard**

<https://us02web.zoom.us/j/89195789458?pwd=Y0hOK0Mvb056dHYxcXVTNkViU0xXQT09>

**Organizers:** Elizabeth Delmelle, University of North Carolina - Charlotte; Isabelle Nilsson, University of North Carolina - Charlotte

**Chair:** Elizabeth Delmelle, University of North Carolina - Charlotte

- Where do Angry Birds Tweet? The role of spatial inequality as determinant for cyberhate in Italy    daria denti — London School of Economics, Alessandra Faggian — Gran Sasso Science Institute
- Field-of-Study Mismatch and the Impact on Metropolitan Growth    Brandon Genetin — Ohio State University
- Trajectories of Neighbourhood Inequality in Britain: Unpacking Inter-regional Socioeconomic Imbalances, 1971-2011    Nikos Patias — University of Liverpool, Francisco Rowe — University of Liverpool
- A New Use For Old Variation; Kindergarten Entry Date Cutoffs, College Merit-Aid, and Academic Performance    Benjamin Tyler Blemings — West Virginia University

#### **Discussants:**

- Elizabeth Delmelle, University of North Carolina - Charlotte
- Bo Feng, Marshall University
- Wei Kang, University of California - Riverside
- John V. Winters, Iowa State University

### **32. How Do Policy and Lifestyle Changes Affect Carbon Emissions?**

**Wednesday Nov 11 | 12:00 PM-1:40 PM | Room: Stough**

<https://us02web.zoom.us/j/86048378392?pwd=cjYzZBQjRjMXhyVi96eWNjRng2QT09>

**Chair:** Katherine Farrow, OECD

- Telecommuting, carbon emissions, and urban form    Waldemar Marz — ifo Institute, Suphi Sen — ifo Institute
- Carbon tax and the future of transport-related CO2 emissions in sprawled urban areas    Ioannis Tikoudis — OECD, Walid Oueslati — Environment Directorate, OECD
- What drives battery electric vehicle adoption? The impact of regional differences in carbon dioxide emissions on consumer decisions    Christina Gore — Ohio State University, Elena Irwin — Ohio State University, Andre Carrel — Ohio State University
- Environmental implications of the proliferation of high-occupancy shared mobility services    Katherine Farrow — OECD

**Discussants:**

- Ioannis Tikoudis, OECD
- Christina Gore, Ohio State University
- Katherine Farrow, OECD
- Waldemar Marz, ifo Institute

**2:00 PM-3:40 PM**

**33. Impacts of Housing Policies**

**Wednesday Nov 11 | 2:00 PM-3:40 PM | Room: Boyce**

<https://us02web.zoom.us/j/88084790468?pwd=L0poSithdEhCaDhid21tVWtQclBGUT09>

**Chair:** Lei Zhang, North Dakota State University

- Do NFIP Subsidies Matter to Homebuyers? Evidence from Nationwide Housing Sales Will Georgic — Kalamazoo College, H. Allen Klaiber — Ohio State University
- Ridehailing and the Value of Mass Transit Access; Evidence from NYC Property Markets Brian Cultice — Ohio State University
- Ignorance is Bliss? Rent Regulation, Policy Awareness, and Labor Market Outcomes Hanchen Jiang — University of North Texas
- Home Purchase Restriction Impact on House Prices A Difference-in-Differences Approach Lei Zhang — North Dakota State University, Kangxin Sun — North Dakota State University, Siqing Zheng — North Dakota State University

**Discussants:**

- Brian Cultice, Ohio State University
- Hanchen Jiang, University of North Texas
- Lei Zhang, North Dakota State University
- Will Georgic, Kalamazoo College

**34. Student Paper Competition: Transportation**

**Wednesday Nov 11 | 2:00 PM-3:40 PM | Room: China Data Institute**

<https://us02web.zoom.us/j/88271718059?pwd=SGxVcElEcjEzVi8wTkJrLzFINnl6QT09>

**Organizers:** Elizabeth Delmelle, University of North Carolina - Charlotte; Isabelle Nilsson, University of North Carolina - Charlotte

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

- Modeling a System of EV Fast Charging Stations for Regional Planning and Real-time Management Dingdong Yang — University of California - Irvine, Navjyoth Sarma — University of California - Irvine, Michael Hyland — University of California - Irvine, R. Jayakrishnan — University of California - Irvine

- A System of Shared Autonomous Vehicles for Chicago: Understanding the Effect of Geofencing the Service Krishna Murthy Gurumurthy — University of Texas at Austin, Joshua Auld — Argonne National Laboratory, Kara M. Kockelman — University of Texas - Austin
- A Framework for Handling Data Quality Issues in Smartphone-based Travel Survey Data Yaxuan Zhang — University of Minnesota - Twin Cities, Ying Song — University of Minnesota - Twin Cities, Yingling Fan — University of Minnesota - Twin Cities
- Optimal Road Network and The Gains from Intranational Trade Lucas Dias — University of São Paulo

**Discussants:**

- Kara M. Kockelman, University of Texas - Austin
- Eric Delmelle, University of North Carolina - Charlotte
- David Boyce, Northwestern University
- Sandy Dall'erba, University of Illinois - Urbana-Champaign

**35. Human Capital Formation**

**Wednesday Nov 11 | 2:00 PM-3:40 PM | Room: Hewings**

<https://us02web.zoom.us/j/85858303367?pwd=SjlXYlgrUkd3cUxKVEV5MGdCM3k2UT09>

**Chair:** Alessandro Crociata, Gran Sasso Science Institute

- The Long-Run Effects of In-Utero Exposure to Malaria on Educational Attainment: Evidence from Brazil Henrique Veras de Paiva Fonseca — Oberlin College
- Universities, Socioeconomic Standards and Inclusion Policies: Assessing the Effects on the Performance of Brazilian Undergraduates Ana Maria de Paula Morais — Federal University of Juiz de Fora, Admir Antonio Betarelli Junior — Federal University of Juiz de Fora, Silvinha Vasconcelos — Federal University of Juiz de Fora, Marcel Vieira — Federal University of Juiz de Fora
- Women's Empowerment Matters: Evidence from the Health and Education Sectors Jinhwan Oh — Ewha Womans University, Kyeong Min Shin — Ewha Womans University, Yujin Lee — Ewha Womans University
- Can culture save young Italians? A remedy to the NEET phenomenon Alessandro Crociata — Gran Sasso Science Institute, Chiara Burlina — Gran Sasso Science Institute, Iacopo Odoardi — Università "G. D'Annunzio" di Chieti-Pescara

**Discussants:**

- Ana Maria de Paula Morais, Federal University of Juiz de Fora
- Jinhwan Oh, Ewha Womans University
- Alessandro Crociata, Gran Sasso Science Institute
- Henrique Veras de Paiva Fonseca, Oberlin College

### **36. Transportation I: Economic Impacts of Transit Investments**

**Wednesday Nov 11 | 2:00 PM-3:40 PM | Room: IMPLAN**

<https://us02web.zoom.us/j/87220927716?pwd=L2d1RGVGckdaRStXeGNwY2UyQ3NYUT09>

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

- Light Rail Transit and Population Change: A Case Study of Charlotte, NC Yue Ke — Purdue University, Brigitte Waldorf — Purdue University
- Investigating Commercial Gentrification around LYNX Blue Line in Charlotte, North Carolina Chang Liu — North Carolina State University, Eleni Bardaka — North Carolina State University, Jean-Claude Thill — University of North Carolina - Charlotte
- Multivariate singular spectrum analysis (MSSA) and systems view of housing starts and transit ridership, network lengths and number of stations in the City of Toronto Ayad Hammadi — University of Toronto, Eric Miller — University of Toronto
- Public Transportation Investment and Agglomeration Economies: A panel data analysis on the effect of transit agency revenue on regional employment growth in Ohio. Seunghoon Oh — University of Cincinnati

**Discussants:**

- Chang Liu, North Carolina State University
- Ayad Hammadi, University of Toronto
- Seunghoon Oh, University of Cincinnati
- Yue Ke, Purdue University

### **37. Formal Paper Session: Regional and Rural Development V: Entrepreneurship**

**Wednesday Nov 11 | 2:00 PM-3:40 PM | Room: Isard**

<https://us02web.zoom.us/j/89195789458?pwd=Y0hOK0Mvb056dHYxcXVTNkViU0xXQT09>

**Organizers:** Stephan Weiler, Colorado State University; Sarah A. Low, University of Missouri - Columbia

**Chair:** Tessa Conroy, University of Wisconsin - Madison

- Rural Agglomeration: How Does the Distribution of People Across Rural America Affect Entrepreneurship? Austin Daniel Sanders — USDA Economic Research Service, Sarah A. Low — University of Missouri - Columbia
- An Investigation into the Impact of ACS on Local Entrepreneurship Stephan Weiler — Colorado State University, Bharman Gulati — Colorado State University
- Betting the Over-Under: Entrepreneurship and a New Measure of Human Capital Tessa Conroy — University of Wisconsin - Madison, Philip Watson — University of Idaho
- Public entrepreneurial financing for women entrepreneurs? Evidence from the financial portfolio of U.S. business owners Maria Figueroa-Armijos — EDHEC Business School

**Discussants:**

- Bharman Gulati, Colorado State University
- Austin Daniel Sanders, USDA Economic Research Service
- Maria Figueroa-Armijos, EDHEC Business School
- Tessa Conroy, University of Wisconsin - Madison

**38. Natural Disasters: Aftermath & Recovery**

**Wednesday Nov 11 | 2:00 PM-3:40 PM | Room: Stough**

<https://us02web.zoom.us/j/86048378392?pwd=cjlCYzZBQjRjMXhyVi96eWNjRng2QT09>

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

- Rental Affordability in the Wake of Natural Disasters Brian An — Georgia Institute of Technology, Andrew Jakobovics — Enterprise Community Foundation, Anthony Orlando — California Polytechnic State University - Pomona, Seva Rodnyansky — Occidental College, Raphael Bostic — Federal Reserve Bank of Atlanta
- Green recovery scenarios for the "After Corona" urban form Yoshiki Yamagata — National Institute for Environmental Studies, Takahiro Yoshida — National Institute for Environmental Studies, Daisuke Murakami — The Institute of Statistical Mathematics
- Surviving Natural Disasters and Racism: Federal Disaster Assistance and Agricultural Resilience Rui Du — Oklahoma State University, Cong Peng — Harvard University, Peng Zhu — Institut Pierre-Simon Laplace
- The Labor Market impact of Hurricanes across Florida Rushaine Demar Goulbourne — University of Alabama

**Discussants:**

- Yoshiki Yamagata, National Institute for Environmental Studies
- Rui Du, Oklahoma State University
- Rushaine Demar Goulbourne, University of Alabama
- Seva Rodnyansky, Occidental College

**4:00 PM-5:40 PM**

**39. Student Paper Competition Session: Health and the Environment**

**Wednesday Nov 11 | 4:00 PM-5:40 PM | Room: Boyce**

<https://us02web.zoom.us/j/88084790468?pwd=L0poSithdEhCaDhid21tVWtQclBGUT09>

**Organizers:** Elizabeth Delmelle, University of North Carolina - Charlotte; Isabelle Nilsson, University of North Carolina - Charlotte

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



- (Federally Funded) Country Roads: Impact of the Appalachian Development Highway System on Mortality Margaret Bock — West Virginia University
- Health Perception and Commuting Choice Yichun Fan — Massachusetts Institute of Technology, Palacio Juan — Massachusetts Institute of Technology, Rachel Luo — Massachusetts Institute of Technology, Mariana Arcaya — Massachusetts Institute of Technology, Siqi Zheng — Massachusetts Institute of Technology
- Impacts of Air Pollution on Urban Housing Prices in China Yifu Ou — University of Hong Kong, Kyung-Min Nam — University of Hong Kong, Siqi Zheng — Massachusetts Institute of Technology
- Does Proximity to Fast Food Cause Childhood Obesity? Evidence from Public Housing Jeehee Han — Syracuse University, Amy Schwartz — Syracuse University, Brian Elbel — New York University

**Discussants:**

- Nicholas Irwin, University of Nevada - Las Vegas
- Isabelle Nilsson, University of North Carolina - Charlotte
- Nicholas Irwin, University of Nevada - Las Vegas
- Clio Andris, Georgia Institute of Technology

**40. Managing Power and Water**

**Wednesday Nov 11 | 4:00 PM-5:40 PM | Room: China Data Institute**

<https://us02web.zoom.us/j/88271718059?pwd=SGxVcElEcjEzVi8wTkJrLzFhNnl6QT09>

**Chair:** Louis Sears, Cornell University

- Dynamics of Power Prices and Water Production in Los Angeles: Implications for Earthquake Resilience and Recovery Bradley T. Ewing — Texas Tech University, Daniel Pastor — University of Texas - El Paso
- Long-term Debt in Water Utilities: Does Ownership Matter? Evidence of West Virginian's Water Utilities Elham Erfanian — University of Kentucky, Jing Chen — Central China Normal University, Collin Hodges — University of Central Arkansas
- Groundwater Under Open Access: A Structural Model of the Dynamic Common Pool Extraction Game Louis Sears — Cornell University, C.-Y. Cynthia Lin Lawell — Cornell University, M. Todd Walter — Cornell University

**Discussants:**

- Elham Erfanian, University of Kentucky
- Louis Sears, Cornell University
- Bradley T. Ewing, Texas Tech University

#### **41. Improving Data Quality and Accessibility for Smart Cities and Regions**

**Wednesday Nov 11 | 4:00 PM-5:40 PM | Room: Hewings**

<https://us02web.zoom.us/j/85858303367?pwd=SjlXYlgrUkd3cUxKVEV5MGdCM3k2UT09>

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

- Smart Cities and the urban digital divide Andrea A.G. Caragliu — Politecnico di Milano, Chiara Del Bo — Università degli Studi di Milano
- Data as Commons: An evaluation of data trust models for governing the Smart City Lauren Noelle McCarthy — George Mason University, David Morar — George Washington University

**Discussants:**

- Lauren Noelle McCarthy, George Mason University
- Andrea A.G. Caragliu, Politecnico di Milano

#### **42. Gender gap in wage and employment**

**Wednesday Nov 11 | 4:00 PM-5:40 PM | Room: IMPLAN**

<https://us02web.zoom.us/j/87220927716?pwd=L2d1RGVGckdaRStXeGNwY2UyQ3NYUT09>

**Chair:** Hao Huang, Illinois Institute of Technology

- Female urban wage premium in Brazil Eloiza Regina Ferreira de Almeida — Federal University of São Paulo, Veneziano de Castro Araújo — Federal University of São Paulo, Solange Ledi Gonçalves — Federal University of São Paulo
- Gender roles, occupation choice, and the gender wage gap Carlianne Patrick — Georgia State University, Heather Stephens — West Virginia University, Amanda Weinstein — University of Akron
- An input-output analysis on gender employment gap in China Ye Yao — Rutgers University, Michael Lahr — Rutgers University
- Globalization and Gender Wage Inequality in China Hao Huang — Illinois Institute of Technology, Yuri Mansury — Illinois Institute of Technology

**Discussants:**

- Carlianne Patrick, Georgia State University
- Ye Yao, Rutgers University
- Hao Huang, Illinois Institute of Technology
- Eloiza Regina Ferreira de Almeida, Federal University of São Paulo

#### **43. Formal Paper Session: Regional and Rural Development VI: Workforce and Entrepreneurship**

**Wednesday Nov 11 | 4:00 PM-5:40 PM | Room: Isard**

<https://us02web.zoom.us/j/89195789458?pwd=Y0hOK0Mvb056dHYxcXVTNkViU0xXQT09>

**Organizers:** Stephan Weiler, Colorado State University; Sarah A. Low, University of Missouri - Columbia

**Chair:** Austin Daniel Sanders, USDA Economic Research Service

- Is any old job enough? Differences in the living wage gap across the rural-urban continuum Tracey Farrigan — Economic Research Service, Amy Glasmeier — Massachusetts Institute of Technology
- Shaping Rural Entrepreneurship: Accounting for Heterogeneity with County Economic Types Austin Daniel Sanders — USDA Economic Research Service, Sarah A. Low — University of Missouri - Columbia, Mark C. White — University of Missouri - Columbia
- Predicting Declining and Growing Occupations Using Supervised Machine Learning Christelle Khalaf — University of Wyoming, Gilbert Michaud — Ohio University, G. Jason Jolley — Ohio University
- Impacts of Two Child Policy on Economic Growth in China using a CGE model Euijune Kim — Seoul National University, MIN JIANG — Seoul National University

#### **Discussants:**

- Austin Daniel Sanders, USDA Economic Research Service
- Tracey Farrigan, Economic Research Service
- MIN JIANG, Seoul National University
- G. Jason Jolley, Ohio University

#### **44. Industrial Specialization on Regional Economic Growth**

**Wednesday Nov 11 | 4:00 PM-5:40 PM | Room: Stough**

<https://us02web.zoom.us/j/86048378392?pwd=cjYyZBQjRjMxhyVi96eWNjRng2QT09>

**Chair:** Xiumin Li, Guangdong University of Technology

- "Whirlpools" and "Safe Harbors" in the Dynamics of Industrial Specialization in Russian Regions Evgeniy Kutsenko — Higher School of Economics, Yaroslav Eferin — World Bank (Russian Office)
- What Factors Drawback South Africa's Industrial Clustering Prospects on Economic Performance? Derrick Anquanah Cudjoe — Southeast University, He Yumei — Southeast University
- Clustering as a Rational Decision or a Lucky Accident: Herd Behaviour as an Alternative Explanation of the Emergence of Sectoral Clusters Using an Agent-based Model Gerben van Roekel — Utrecht University, Martijn J. Smit — Utrecht University

=== Official Time Zone: U.S. Central ===

- ICT and Regional Economic Growth: Evidence from China Xiumin Li — Guangdong University of Technology, Mi Guo — Northeast Normal University

**Discussants:**

- Derrick Anquanah Cudjoe, Southeast University
- Gerben van Roekel, Utrecht University
- Xiumin Li, Guangdong University of Technology
- Evgeniy Kutsenko, Higher School of Economics

**6:00 PM-8:00 PM**

**45. Virtual Wine Tasting**

**Wednesday Nov 11 | 6:00 PM-7:15 PM | Room: IMPLAN**

Register in advance (free):

[https://us02web.zoom.us/webinar/register/WN\\_ILptlhESTM2Ai\\_r4Ri\\_tEg](https://us02web.zoom.us/webinar/register/WN_ILptlhESTM2Ai_r4Ri_tEg)

**Host:** John Spring, A Life Well Drunk.

Tasting wines from Altipiano Vineyards, San Diego, California.

## **Thursday, November 12, 2020**

### **COFEE BREAK ROOM (10 AM – 6 PM)**

<https://us02web.zoom.us/j/84628772953?pwd=RzdKbkdFd09jWkVlQmV3UE50QUVEUT09>

**10:00 AM-11:40 AM**

#### **46. Transportation V: Travel Preferences and Perceptions**

**Thursday Nov 12 | 10:00 AM-11:40 AM | Room: Boyce**

<https://us02web.zoom.us/j/88569083608?pwd=MUpUYzR5YzlabEIIRTVzTXFnRXVBQT09>

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

- Does ICT development and digital technologies decrease the demand of business travel? Hristina Gaydarska — Kobe University, Miwa Matsuo — Kobe University
- Approximating the impact of the congestion effect on users' attitude towards the public bus transport system: the case of Barcelona Miquel-Angel Garcia-Lopez — Universitat Autònoma de Barcelona & IEB, Rosella Nicolini — Universitat Autònoma de Barcelona, José Luis Roig — Universitat Autònoma de Barcelona
- Are millennials less car-oriented? A comparison of millennials and seniors' attitudes and preferences towards different travel modes and residential characteristics Shaila Jamal — McMaster University, Bruce Newbold — McMaster University
- High-Speed Rail Network and College Choice in China Shiyu Cheng — University of Kentucky

#### **Discussants:**

- Rosella Nicolini — Universitat Autònoma de Barcelona,
- Shaila Jamal, McMaster University
- Shiyu Cheng, University of Kentucky
- Hristina Gaydarska, Kobe University

#### **47. Formal Paper Session: Trade Issues I**

**Thursday Nov 12 | 10:00 AM-11:40 AM | Room: China Data Institute**

<https://us02web.zoom.us/j/82880171281?pwd=Y0gOT21SemFpb3dJWnNrYTlJcGZ09>

**Organizer:** Rafael Garduno-Rivera, Universidad Panamericana

**Chair:** Rafael Garduno-Rivera, Universidad Panamericana

- Is There Evidence That Peace Actually Promotes Trade? Woosung Kim — Korea University, Yuri Mansury — Illinois Institute of Technology

- Trade Liberalization, Selection and Technology Adoption with Vertical Linkages Antonella Nocco — University of Salento, Antonio Navas — University of Sheffield
- Is Aid-for-Trade Working? Evidence from Southeast Asian Countries Jinhwan Oh — Ewha Womans University, Yujin Lee — Ewha Womans University

**Discussants:**

- Antonella Nocco, University of Salento
- Jinhwan Oh, Ewha Womans University
- Woosung Kim, Korea University

**48. Student Paper Competition: Economic Development & Growth**

**Thursday Nov 12 | 10:00 AM-11:40 AM | Room: Hewings**

<https://us02web.zoom.us/j/85265612627?pwd=cVRxRTA3WXF5dGZlWEN3eE1SSkx0QT09>

**Organizers:** Elizabeth Delmelle, University of North Carolina - Charlotte; Isabelle Nilsson, University of North Carolina - Charlotte

**Chair:** Elizabeth Delmelle, University of North Carolina - Charlotte

- The Implications of State Business Incentives on Startups and Incumbent Firms Abraham Song — George Mason University
- JOLTS of Information Kristopher Deming — Colorado State University, Stephan Weiler — Colorado State University
- Do urban redevelopment projects create jobs? Evidence from the Dutch National Restoration Fund Niels Martijn Kuiper — University of Groningen, Arno Van der Vlist — University of Groningen, Mark Van Duijn — University of Groningen
- Understanding long-term land value uplift in planned new urban centres: How does planning matter? Tianren Yang — University of Cambridge, Ying Jin — University of Cambridge

**Discussants:**

- Jacopo Canello, Groningen University
- Rafael Garduno-Rivera, Universidad Panamericana
- Geoffrey J D Hewings, University of Illinois - Urbana-Champaign
- Zhenhua Chen, The Ohio State University

#### **49. Global Externalities**

**Thursday Nov 12 | 10:00 AM-11:40 AM | Room: Isard**

<https://us02web.zoom.us/j/88531036223?pwd=cHhjNWkxYWk4bFQxUWRiajNvdEEzZz09>

**Chair:** Kieran Patrick Donaghy, Cornell University

- When One Cannot Bypass the Byproducts: Plastic Packaging Waste in Global Trade. Xiang Gao — National Academy of Sciences, Sandy Dall'erba — University of Illinois - Urbana-Champaign, Brenna Ellison — University of Illinois - Urbana-Champaign, Andre Avelino — National Renewable Energy Laboratory
- Combining international atmospheric fluxes and trade flows of air pollution across countries: new evidence, and spatial interactions Sandy Dall'erba — University of Illinois - Urbana-Champaign, Yilan Xu — University of Illinois, Nicole Riemer — University of Illinois - Urbana-Champaign, Yu Yao — University of Illinois - Urbana-Champaign, Ran Xu — National Academy of Sciences
- Effects of Transboundary Pollution on Housing Prices in Korea: Focusing on Fine Particulate Transported from China Kyung-Min Nam — University of Hong Kong, Yifu Ou — University of Hong Kong, Siqi Zheng — Massachusetts Institute of Technology
- A Circular Economy Model with International Trade in Polluting Resources, Other Materials, and Recycling Technologies Kieran Patrick Donaghy — Cornell University

#### **Discussants:**

- Kyung-Min Nam, University of Hong Kong
- Kieran Patrick Donaghy, Cornell University
- Sandy Dall'erba, University of Illinois - Urbana-Champaign
- Yifu Ou, University of Hong Kong

#### **50. Econometric Models for Monitoring and Prediction**

**Thursday Nov 12 | 10:00 AM-11:40 AM | Room: Stough**

<https://us02web.zoom.us/j/82993883017?pwd=N2k3SmwxR3BSQnZPWENiZng3anV4Zz09>

**Chair:** Ayad Hammadi, University of Toronto

- REMI IQ+: A Synthesized Regional Input-Output/Dynamic Quarterly Forecasting and Policy Analysis Model Frederick Treyz — Regional Economic Models Inc, Peter Evangelakis — Regional Economic Models Inc
- Partial marginal effects for spatial models on the example of wage curve for Russia Olga Demidova — National Research University Higher School of Economics, Ekaterina Timofeeva — National Research University Higher School of Economics
- Monitoring multi-regional economic systems through the analysis of common and region-specific components Jesús M. Lasarte López — Universidad Loyola

- Multivariate singular spectrum analysis (MSSA) and systems view of housing starts and national/regional socioeconomic factors. Ayad Hammadi — University of Toronto, Eric Miller — University of Toronto

**Discussants:**

- Olga Demidova, National Research University Higher School of Economics
- Jesús M. Lasarte López, Universidad Loyola
- Ayad Hammadi, University of Toronto
- Frederick Treyz, Regional Economic Models Inc

**51. Formal Paper Session: Covid-19 (Coronavirus) - Regional Drivers, Effects, and Policy Responses I**

**Thursday Nov 12 | 10:00 AM-11:40 AM | Room: IMPLAN**

<https://us02web.zoom.us/j/84706916234?pwd=TEtLOGtMT0tLL2tnMmtkeStJVTQ5dz09>

**Organizers:** Neil Reid, University of Toledo; Tomaz Ponce Dentinho, University of the Azores

**Chair:** Neil Reid, University of Toledo

- Analysing compliance to Covid-19 policies: Evidence from the media and government messages Laila AitBihiOuali — Imperial College London
- Teleworking after Reopening: Teleworking Propensity and the COVID-19 Lockdown Ting Zhang — University of Baltimore, Dan Gerlowski — University of Baltimore
- COVID-19 at the Regional and Municipal Scales: An Exploratory Spatial Analysis of ZIP Code Data in Chicago and New York Kevin Nicholas Credit — University of Chicago
- A Space-Time Roller-Coaster Analysis of Corona in The Hospitality Market Karima Kourtiti — Open University, Heerlen The Netherlands, Peter Nijkamp — JADS, The Netherlands, John Östh — Uppsala University, Umut Türk — Abdullah Gul University, Kayseri (Turkey)

**Discussants:**

- Ting Zhang, University of Baltimore
- Kevin Nicholas Credit, University of Chicago
- Karima Kourtiti, Open University, Heerlen The Netherlands
- Laila AitBihiOuali, Imperial College London



**12:00 PM-1:40 PM**

**52. Transportation IV: Health and Safety in Transportation**

**Thursday Nov 12 | 12:00 PM-1:40 PM | Room: Boyce**

<https://us02web.zoom.us/j/88569083608?pwd=MUpUYzR5YzlabEIIRTVzTXFnRXVBQT09>

**Chair:** Kevin Duncan, FHFA

- PREDICTING PEDESTRIAN CRASH OCCURRENCE AND INJURY SEVERITY IN TEXAS Mashrur Rahman — University of Texas - Austin, Kara M. Kockelman — University of Texas - Austin, Kenneth A. Perrine — University of Texas - Austin
- Pedestrian Crashes in a COVID-19 World Rebekka Apardian — University of Toledo, Oleg Smirnov — University of Toledo
- Is there a relationship between use of motorcycles and the level of development of countries? Suzana Quinet Bastos — Federal Univesity of Juiz de Fora, Fabio Gama — Federal University of Juiz de Fora, Tiana Paula Assis — Federal University of Juiz de Fora, Matheus Milosz — Federal University of Minas Gerais
- Do Nudges Induce Safe Driving? Evidence from Dynamic Message Signs Kevin Duncan — FHFA

**Discussants:**

- Rebekka Apardian, University of Toledo
- Suzana Quinet Bastos, Federal Univesity of Juiz de Fora
- Kevin Duncan, FHFA
- Mashrur Rahman, University of Texas - Austin

**53. Effect of Nearby Infrastructure on Housing Price**

**Thursday Nov 12 | 12:00 PM-1:40 PM | Room: China Data Institute**

<https://us02web.zoom.us/j/82880171281?pwd=Y0g0T21SemFpb3dJWnNrYTIJcGErZz09>

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

- House of the Rising Sun: The Effect of Utility-Scale Solar Arrays on Housing Prices Vasundhara Gaur — University of Rhode Island, Corey Lang — University of Rhode Island
- End of the Line: Impact of New Suburban Rail Stations on Housing Price Rhea Acuña — Syracuse University
- The Capitalization of Metro Rail Access in Urban Housing Markets Zachary Keeler — West Virginia University, Heather Stephens — West Virginia University

**Discussants:**

- Rhea Acuña, Syracuse University

- Zachary Keeler, West Virginia University
- Vasundhara Gaur, University of Rhode Island

#### **54. Regional Economy: Jobs and Wages**

**Thursday Nov 12 | 12:00 PM-1:40 PM | Room: Hewings**

<https://us02web.zoom.us/j/85265612627?pwd=cVRxRTA3WXF5dGZlWEN3eE1SSkx0QT09>

**Chair:** Christopher Donald Blake, Oxford College of Emory University

- Oil Price Changes and Wages: A Nonlinear and Asymmetric Approach Nyakundi Michieka — California State University - Bakersfield, Richard Gearhart — California State University - Bakersfield
- Better or Worse Job Accessibility? Understanding Changes in Spatial Mismatch at the Intra-urban Level in Medellín David Bernal — EAFIT University, Gustavo Garcia — EAFIT University, Jorge Pérez Pérez — Banco de México
- The changing opportunity landscape: On the relationship between poverty suburbanization, job accessibility and employment outcomes Isabelle Nilsson — University of North Carolina - Charlotte, Elizabeth Delmelle — University of North Carolina - Charlotte, Johanna C. Schuch — University of North Carolina - Charlotte, Providence Adu — University of North Carolina - Charlotte
- Does the Firm Superstar Model Explain Labor Share Dynamics? Evidence from Counties in Georgia Christopher Donald Blake — Oxford College of Emory University, Shaheen Pirani — Emory University

#### **Discussants:**

- Jorge Eduardo Pérez Pérez, Banco de México
- Isabelle Nilsson, University of North Carolina - Charlotte
- Christopher Donald Blake, Oxford College of Emory University
- Nyakundi Michieka, California State University - Bakersfield

#### **55. Formal Paper Session: Regional and Rural Development VII: Urban and Regional Development**

**Thursday Nov 12 | 12:00 PM-1:40 PM | Room: Isard**

<https://us02web.zoom.us/j/88531036223?pwd=cHhjNWkxYWk4bFQxUWRiajNvdEExZz09>

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

**Chair:** Scott Loveridge, Michigan State University

- Resolving Discontinuities in Broadband Data to Achieve Longitudinal Analyses of the Digital Divide Elizabeth Mack — Michigan State University, Kangjia Ma — Arizona State University, Ross Maciejewski — Arizona State University, Tony Grubescic — Arizona State University

University, Scott Loveridge — Michigan State University, John Mann — Michigan State University

- The Native American Digital Divide: Assessing the Presence of Firms in Tribal Counties with Heterogeneity in Broadband Access Thomas Keene — Michigan State University, Elizabeth Mack — Michigan State University, Scott Loveridge — Michigan State University, John Mann — Michigan State University, Miranda Gollnow — College of Menominee Nation
- Impacts of the Broadband Initiatives Program on Saving and Creating Jobs Anil Rupasingha — US Department of Agriculture, John Pender — USDA Economic Research Service, Ryan Williams — US department of agriculture

**Discussants:**

- Anil Rupasingha, US Department of Agriculture
- John Pender, USDA Economic Research Service
- Scott Loveridge, Michigan State University

**56. Money and Poverty**

**Thursday Nov 12 | 12:00 PM-1:40 PM | Room: Stough**

<https://us02web.zoom.us/j/82993883017?pwd=N2k3SmwxR3BSQnZPWENiZng3anV4Zz09>

**Chair:** Josh Matti, Georgia Gwinnett College

- Simulating the Impact on Ecological Based Village Funds in Indonesia Alin Halimatussadiah — Universitas Indonesia, Wiko Saputra — Auriga, Faizal Rahmanto Moeis — University of Indonesia, Wiko Saputra — Auriga, Faizal Rahmanto Moeis — University of Indonesia
- Targeted social assistance programs for the poor and local economies: The case of conditional cash transfer in Indonesia Budy P Resosudarmo — Australian National University, Anna Falentina — Statistics Indonesia
- Money is Money: The Economic Impact of BerkShares Josh Matti — Georgia Gwinnett College, Yang Zhou — University of North Texas

**Discussants:**

- Budy P. Resosudarmo, Australian National University
- Josh Matti, Georgia Gwinnett College
- Alin Halimatussadiah, Universitas Indonesia

**57. Formal Paper Session: Formal Paper Session: Border Issues in the Americas**  
**Thursday Nov 12 | 12:00 PM-1:40 PM | Room: IMPLAN**

<https://us02web.zoom.us/j/84706916234?pwd=TEtIOGtMT0tLL2tnMmtkeStJVTQ5dz09>

**Organizers:** Haoying Wang, New Mexico Institute of Mining and Technology; Rafael Garduno-Rivera, Universidad Panamericana

**Chairs:** Rafael Garduno-Rivera, Universidad Panamericana; Haoying Wang, New Mexico Institute of Mining and Technology

- Knowledge Borders and the Cascadia Innovation Corridor: The Emergence of a Cross Border High Tech Cluster in the Canada-U.S. Border Region and the possible Impact of COVID 19 on its Development Kathrine Eileen Richardson — San Jose State University
- Estimating the Effect of Immigration on Public Finances: Evidence from the influx of Venezuelan migrants to Colombia Carlos A. Mesa-Guerra — Cornell University, Tomas Ramirez-Tobon — Independent Researcher
- Trade Networks and Policy Diffusion Prakrati Thakur — University of Illinois - Urbana-Champaign, Sergio De Holanda Rocha — University of Illinois - Urbana-Champaign
- State Failure, Violence and Trade: Deadly Trade Routes in Colombia Paul Jung — University of North Carolina at Charlotte, Jean-Claude Thill — University of North Carolina - Charlotte

**Discussants:**

- Carlos A. Mesa-Guerra, Cornell University
- Prakrati Thakur, University of Illinois - Urbana-Champaign
- Paul Jung, University of North Carolina at Charlotte
- Kathrine Eileen Richardson, San Jose State University

**2:00 PM-3:40 PM**

**58. Local Public Finance**

**Thursday Nov 12 | 2:00 PM-3:40 PM | Room: Boyce**

<https://us02web.zoom.us/j/88569083608?pwd=MUpUYzR5YzlabEIIRTVzTXFnRXVBQT09>

**Chair:** Joshua Drucker — University of Illinois - Chicago

- Subnational crowding out in mining localities: Does level of local provision of public goods matter? Mauricio Oyarzo — Universidad de Concepción Campus Chillán, Dusan Paredes — Universidad Católica del Norte
- Local public fiscal effects of fracking: The case of Texas Dylan Maikel Oliver Jong — University of Groningen, Steven Craig — University of Houston

- Economic Impacts of Industrial Parks: Evidence from Virginia's Tobacco Region Megaproject Program Terance James Rephann — University of Virginia
- Is Local Government Tax Competition Strategic? Spatial Distributions of Business Property Tax Abatements in the Chicago Suburbs. Richard Funderburg — University of Illinois - Springfield, Joshua Drucker — University of Illinois - Chicago, David Merriman — University of Illinois - Chicago, Rachel Weber — University of Illinois - Chicago

**Discussants:**

- Dylan Jong, University of Groningen
- Terance James Rephann, University of Virginia
- Joshua Drucker, University of Illinois - Chicago
- Mauricio Oyarzo, Universidad de Concepción Campus Chillán

**59. Papers on Entrepreneurship**

**Thursday Nov 12 | 2:00 PM-3:40 PM | Room: China Data Institute**

<https://us02web.zoom.us/j/82880171281?pwd=Y0g0T21SemFpb3dJWnNrYTIJcGErZz09>

**Chair:** Li (Kerry) Fang, Florida State University

- Title: Examining the role of quality-of-life and knowledge spillover in promoting entrepreneurship. Evidence from geo-tagged annual firm registration records in Shanghai, China Haozhi Pan — Shanghai Jiao Tong University, Tianren Yang — University of Cambridge
- ONE SIZE DOES NOT FIT ALL: EVALUATING THE IMPACT BETWEEN MICROENTERPRISE MEASUREMENT AND POLICY EVALUATION Sergio Andres Contreras-Pinto — Universidad Catolica del Norte
- Competition, Innovation and Productivity: Evidence from Mexican Manufacturing Industries Rut Atayde — Secretaría de Gobernación, Rafael Garduno-Rivera — Universidad Panamericana, Eduardo Robles — Universidad Panamericana, Pluvia Zúñiga — United Nations University
- Nowcasting Entrepreneurship: Urban Third Place v.s. The Creative Class Li (Kerry) Fang — Florida State University, Timothy Slaper — Indiana University

**Discussants:**

- Sergio Contreras-Pinto, Universidad Catolica del Norte
- Rut Atayde, Secretaría de Gobernación
- Li (Kerry) Fang, Florida State University
- Haozhi Pan, Shanghai Jiao Tong University

## 60. Location Modeling

Thursday Nov 12 | 2:00 PM-3:40 PM | Room: Hewings

<https://us02web.zoom.us/j/85265612627?pwd=cVRxRTA3WXF5dGZlWEN3eE1SSkx0QT09>

**Chair:** Matthew Kures, University of Wisconsin - Madison

- Spatial layout optimization for solar photovoltaic (PV) panel installation using Unmanned Aerial Systems (UAS) Qing Zhong — Arizona State University, Daoqin Tong — Arizona State University
- Station-free Bike Rebalancing Analysis: Scale, Modeling, and Computational Challenges Xueting Jin — Arizona State University, Daoqin Tong — Arizona State University
- Clustering and Hotel Prices in Dubai Mohammad Arzaghi — American University of Sharjah, Ismail Genc — American University of Sharjah, Shaabana Naik — American University of Sharjah
- Concentration and Co-location Patterns of Information and Communication Technology Establishments: A Comparison of Approaches Using Establishment-Level and Spatially-Aggregated Data Matthew Kures — University of Wisconsin - Madison

### Discussants:

- Xueting Jin, Arizona State University
- Mohammad Arzaghi, American University of Sharjah
- Matthew Kures, University of Wisconsin - Madison
- Qing Zhong, Arizona State University

## 61. Formal Paper Session: Regional Economic Effects of Disasters I

Thursday Nov 12 | 2:00 PM-3:40 PM | Room: IMPLAN

<https://us02web.zoom.us/j/84706916234?pwd=TEtLOGtMT0tLL2tnMmtkeStJVTQ5dz09>

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

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

- Building resilience against weather shocks: Should we go local? Noé J Nava — University of Illinois - Urbana-Champaign, William Ridley — University of Illinois - Urbana-Champaign
- The Cost-Effectiveness of Economic Resilience Noah Dormady — Ohio State University, Adam Rose — University of Southern California, Alfredo Roa-Henriquez — Johns Hopkins University, Charles Blain Morin — Ohio State University
- Socioeconomic Dimensions of Resilience to Seaport and Highway Transportation Network Disruption Dan Wei — University of Southern California, Adam Rose —

University of Southern California, Zhenhua Chen — Ohio State University, Eyuphan Koc  
— University of Southern California, Lucio Soibelman — University of Southern  
California

- Water Contamination and Population Change: A Tipping Point in Distressed Communities? Samuel Taylor — West Virginia University, Heather Stephens — West Virginia University

**Discussants:**

- Adam Rose, University of Southern California
- Dan Wei, University of Southern California
- Samuel Taylor, West Virginia University
- Noé J Nava, University of Illinois - Urbana-Champaign

**62. Topics in Spatial Analysis**

**Thursday Nov 12 | 2:00 PM-3:40 PM | Room: Stough**

<https://us02web.zoom.us/j/82993883017?pwd=N2k3SmwxR3BSQnZPWENiZng3anV4Zz09>

**Chair:** Xiangyu Li, University of California - Irvine

- Airbnb in European cities: a spatial study Kristóf Gyódi — University of Warsaw
- An Exploratory Analysis of 311 Service Requests in Miami-Dade County: Spatial Clusters and Potential Determinants Shaoming Cheng — Florida International University, Sukumar Ganapati — Florida International University
- Spatial analysis of the relationship between household digitalization and the convergence of economic growth Ekaterina Kadochnikova — Kazan Federal University
- The Diffusion of Civil Drones in the U.S. Xiangyu Li — University of California - Irvine

**Discussants:**

- Shaoming Cheng, Florida International University
- Ekaterina Kadochnikova, Kazan Federal University
- Xiangyu Li, University of California - Irvine
- Kristopher Deming, Colorado State University

**63. Formal Paper Session: Covid-19 (Coronavirus) - Regional Drivers, Effects, and Policy Responses II**

**Thursday Nov 12 | 2:00 PM-3:40 PM | Room: Isard**

<https://us02web.zoom.us/j/88531036223?pwd=cHhjNWkxYWk4bFQxUWRiajNvdEEExZz09>

**Organizers:** Neil Reid, University of Toledo; Tomaz Ponce Dentinho, University of the Azores

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

- Investigation of the coronavirus disease (Covid-19) outbreak with socio-economic and physical indicators of urban and rural areas at the city level Emre Tepe — University of Florida
- Do Social Vulnerable Groups Suffer more from COVID-19?: An Empirical Study on the Infection and Death Rate between EJ and Non-EJ Communities Ziqi Liu — University of Texas - Austin, Wenjia Zhang — Peking University, Ming Zhang — University of Texas - Austin
- Geographic access to COVID-19 healthcare in Brazil using a new balanced float catchment Area Rafael Pereira — Institute for Applied Economic Research (Ipea), Carlos Kauê Braga — Institute for Applied Economic Research (Ipea), Luciana Servo — Institute for Applied Economic Research (Ipea), Bernardo Serra — Institute for Transportation and Development Policy, Pedro Amaral — Cedeplar/UFMG, Nelson Gouveia — Sao Paulo State University, Antonio Paez — McMaster University
- Racial Disparity Effects of the COVID-19 Pandemic: A Spatial Diffusion Analysis Across U.S. Counties Yao-Yu Chih — Texas State University, Andrew Ojede — Texas State University

**Discussants:**

- Ziqi Liu, University of Texas - Austin
- Rafael Pereira, Institute for Applied Economic Research (Ipea)
- Yao-Yu Chih, Texas State University
- Emre Tepe, University of Florida

**4:00 PM-5:40 PM**

**64. Topics in Regional Economies**

**Thursday Nov 12 | 4:00 PM-5:40 PM | Room: Boyce**

<https://us02web.zoom.us/j/88569083608?pwd=MUpUYzR5YzlabEIIRTVzTXFnRXVBQT09>

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

- Entrepreneurship and income inequality in cities: Differentiated effects of business start-ups and self-employment Shiqin Liu — Northeastern University, Haifeng Qian — University of Iowa
- Entropy based estimator and regionalization of national input-output tables BARTLOMIEJ ROKICKI — University of Warsaw, Esteban Fernández Vázquez — Universidad de Oviedo
- Planes, Trains, and Automobiles: Night-time Lights of the USA Jeffrey Dickinson — Graduate Institute, Geneva
- Regional economic dynamics and the formulation of future expectations Jae Hong Kim — University of California - Irvine



**Discussants:**

- BARTLOMIEJ ROKICKI, University of Warsaw
- Jeffrey Dickinson, Graduate Institute, Geneva
- Jae Hong Kim, University of California - Irvine
- Shiqin Liu, Northeastern University

**65. Inter-regional Migration**

**Thursday Nov 12 | 4:00 PM-5:40 PM | Room: Hewings**

<https://us02web.zoom.us/j/85265612627?pwd=cVRxRTA3WXF5dGZlWEN3eE1SSkx0QT09>

**Chair:** Hanchen Jiang, University of North Texas

- Economic assimilation and mental health consequences of rural-urban migrants under an open internal migration policy: Evidence from Indonesia Rus'an Nasrudin — University of Indonesia, Budy P Resosudarmo — Australian National University
- Inter-Regional Migration Networks: Social Network Analysis of an Agent-Based Model of a System of Cities Keith Waters — George Mason University
- Parental Migration, Investment in Children, and Children's Non-cognitive Development: Evidence from Rural China Hanchen Jiang — University of North Texas, Xi Yang — University of North Texas

**Discussants:**

- Keith Waters, George Mason University
- Hanchen Jiang, University of North Texas
- Rus'an Nasrudin, University of Indonesia

**66. Formal Paper Session: Regional Economic Effects of Disasters II**

**Thursday Nov 12 | 4:00 PM-5:40 PM | Room: IMPLAN**

<https://us02web.zoom.us/j/84706916234?pwd=TEtlOGtMT0tLL2tnMmtkeStJVTQ5dz09>

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

**Chair:** Adam Rose, University of Southern California

- Estimating Post-disaster Production Capacity Recovery with Multi-state semi-Markov Model HUAN LIU — Kyoto University, Hirokazu Tatano — Kyoto University
- Unpredictable shock and subsequent predictable industrial behavior Marco Modica — Gran Sasso Science Institute, Daniele Mantegazzi — Gran Sasso Science Institute
- Many faces of structural change: Case study on the 1995 Kobe Earthquake Yasuhide Okuyama — University of Kitakyushu

- BEYOND THE IMPACT OF EUROPEAN REGIONAL POLICIES: A DECOMPOSITION OF SPILLOVER EFFECTS Marusca De Castris — Roma Tre University, Daniele Di Gennaro — Roma Tre University, Giulio Breglia — Roma Tre University

**Discussants:**

- Marco Modica, Gran Sasso Science Institute
- Yasuhide Okuyama, University of Kitakyushu
- Marusca De Castris, Roma Tre University
- HUAN LIU, Kyoto University

**67. Trade Issues II**

**Thursday Nov 12 | 4:00 PM-5:40 PM | Room: Stough**

<https://us02web.zoom.us/j/82993883017?pwd=N2k3SmwxR3BSQnZPWENiZng3anV4Zz09>

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

- The Determinants of Myanmar's Trade Pattern: A Gravity Approach Jinhwan Oh — Ewha Womans University, Kyungmin Park — Ewha Womans University, Yuzana Hlaing — Ewha Womans University
- When your client moves abroad: forced upgrading and subcontractors' performances in the manufacturing sector Jacopo Canello — Groningen University, Nicoletta Giudice — University of Groningen, Dimitrios Soudis — University of Groningen
- IMPACTS OF INSTITUTIONAL EFFICIENCY ON TRADE IN DEVELOPED AND DEVELOPING COUNTRIES Damares Afonso — Federal University of Juiz de Fora, Suzana Quinet Bastos — Federal University of Juiz de Fora, Fernando Salgueiro Perobelli — Federal University of Juiz de Fora, Admir Antonio Betarelli Junior — Federal University of Juiz de Fora

**Discussants:**

- Jacopo Canello, Groningen University
- Damares Afonso, Federal University of Juiz de Fora
- Jinhwan Oh, Ewha Womans University

**68. Formal Paper Session: Covid-19 (Coronavirus) - Regional Drivers, Effects, and Policy Responses III**

**Thursday Nov 12 | 4:00 PM-5:40 PM | Room: China Data Institute**

<https://us02web.zoom.us/j/82880171281?pwd=Y0g0T21SemFpb3dJWnNrYTIJcGErZz09>

**Organizers:** Neil Reid, University of Toledo; Tomaz Ponce Dentinho, University of the Azores

**Chair:** Neil Reid, University of Toledo

- Structural Propagation of Pandemic Shocks: An Input-Output Analysis of the Economic Costs of COVID-19 Eduardo Haddad — University of Sao Paulo, Fernando Salgueiro Perobelli — Federal University of Juiz de Fora, Inácio Araújo — University of Sao Paulo, Karina S.S. Bugarin — Economics and Politics Research Group, Brazil
- Spatial Interaction Models to Assess the Trade-off between Economy and Health. An application to the effects of Covid-19 in the regions of Portugal Karina S.S. Bugarin — Economics and Politics Research Group, Brazil, Tomaz Ponce Dentinho — University of the Azores, Bruno António — ESRI Portugal
- The Immediate Effects of COVID-19 on Employment Transition Dynamics: Comparative Study between Rural and Urban America Oudom Hean — North Dakota State University, Nattanicha Chairassamee — Kasetsart University
- COVID-19 Pandemic Severity, Lockdown Regimes, and People's Mobility: Evidence from 88 Countries Md Mokhesur Rahman — University of North Carolina - Charlotte, Jean-Claude Thill — University of North Carolina - Charlotte, Kamal Chandra Paul — University of North Carolina - Charlotte

**Discussants:**

- Karina S.S. Bugarin, Economics and Politics Research Group, Brazil
- Oudom Hean, North Dakota State University
- Md Mokhesur Rahman, University of North Carolina - Charlotte
- Eduardo Haddad, University of Sao Paulo

**69. Formal Paper Session: Machine Learning in Regional Science: Perspectives, Methods, and Applications**

**Thursday Nov 12 | 4:00 PM-5:40 PM | Room: Isard**

<https://us02web.zoom.us/j/88531036223?pwd=cHhjNWkxYWk4bFQxUWRiajNvdEEzZz09>

**Organizer:** Kevin Nicholas Credit, University of Chicago

**Chair:** Kevin Nicholas Credit, University of Chicago

- Spatial Models or Random Forest? Evaluating the use of spatially-explicit machine learning methods to predict employment density around new transit stations in Los Angeles Kevin Nicholas Credit — University of Chicago

- Heterogeneous Treatment Effects and Efficient Policy Learning: Evidence from the Oregon Health Experiment Shishir Shakya — West Virginia University
- A Hybrid Spatio-Temporal Land-Use Change Model with Land Partitioning Emre Tepe — University of Florida
- Spatial Patterns of Predicted Values Matthew Lehnert — Al Akhawayn University

**Discussants:**

- Shishir Shakya, West Virginia University
- Emre Tepe, University of Florida
- Matthew Lehnert, Al Akhawayn University
- Kevin Nicholas Credit, University of Chicago

**6:00 PM-8:00 PM**

**70. Lessons from the Covid-19 Pandemic**

**Thursday Nov 12 | 6:00 PM-8:00 PM | Room: China Data Institute**

<https://us02web.zoom.us/j/82543364725?pwd=N3hQdUloZVpkekdBc0VpdIBITlgdz09>

**Chair:** Jennifer Helgeson, National Institute of Standards and Technology

- Narrative Economics, Public Policy and Mental Health Annie Tubadji — Swansea University, Don Webber — Sheffield University, Frederic Boy — Swansea University
- How to construct generalized logistic curves associated with the complex logistic equation: An application to COVID -19 Jun Arai — Ryukoku University, Yasuyuki Nishigaki — Ryukoku University, Toshikazu Ito — Ryukoku University
- Lessons from SMEs for natural disaster resilience planning and recovery during a pandemic Jennifer Helgeson — National Institute of Standards and Technology, Juan Francisco Fung — NIST, Alfredo Roa-Henriquez — Johns Hopkins University, Yating Zhang — National Institute of Standards and Technology

**Discussants:**

- Yasuyuki Nishigaki, Ryukoku University
- Jennifer Helgeson, National Institute of Standards and Technology
- Annie Tubadji, Swansea University

**71. Formal Paper Session: Urban Analytics**

**Thursday Nov 12 | 6:00 PM-8:00 PM | Room: IMPLAN**

<https://us02web.zoom.us/j/89186396444?pwd=R2hsS0kydkorV1J2YXNPdVVOVDhRUT09>

**Organizer:** Myounggu Kang, University of Seoul

**Chair:** Myounggu Kang, University of Seoul

- The effect of COVID-19 on spatio-temporally detail urban carbon mapping of Tokyo, Japan Takahiro Yoshida — National Institute for Environmental Studies, Yoshiki Yamagata — National Institute for Environmental Studies
- How are urban amenities located across European capital cities? Paola Proietti — European Commission, Patrizia Sulis — European Commission
- A data-driven algorithm to re-define the Rural-Urban dichotomy in the U.S.: Affinity Propagation as a mixed-data/mixed-method tool. Marcello Graziano — Southern Connecticut State University, Benjamin W. Heumann — Central Michigan University, Maurizio Fiaschetti — University of Nottingham
- Assessing Walkability Through Parking Prices Mauricio Arango — University of Illinois - Urbana-Champaign

**Discussants:**

- Paola Proietti, European Commission
- Marcello Graziano, Southern Connecticut State University
- Mauricio Arango, University of Illinois - Urbana-Champaign
- Takahiro Yoshida, National Institute for Environmental Studies

## **Friday, November 13, 2020**

**10:00 AM-11:30 AM**

### **72. Alonso Book Award Session**

**Friday Nov 13 | 10:00 AM-11:30 AM | Room: IMPLAN**

<https://us02web.zoom.us/j/86372817704?pwd=Y0lZVHVrMTFuV1NhN3BWcDY4V3RsZz09>

The winner is *Location Covering Models* by Alan Murray and Richard Church (Springer 2018).

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

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

**Winner and speaker:** Richard Church, University of California - Santa Barbara

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

**12:00 PM-1:40 PM**

### **73. Formal Paper Session: Location and Spatial Analysis I**

**Friday Nov 13 | 12:00 PM-1:40 PM | Room: Alonso**

<https://us05web.zoom.us/j/88330705294?pwd=amlzMGpqYm9MTHJWdTNCSjJiMmFudz09>

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

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

- The Max-p-Compact-regions Problem Xin Feng — University of California - Riverside, Sergio J. Rey — University of California - Riverside, Ran Wei — University of California - Riverside
- Spatial structure of primary health care provision in Brazilian municipalities Pedro Amaral — Cedeplar/UFGM, Lucas Carvalho — Federal University of Minas Gerais, Luciana Luz — Federal University of Minas Gerais, Allan Barbosa — Federal University of Minas Gerais
- Spatial sampling configuration for air quality network monitoring Evgeny Noi — University of California - Santa Barbara, Alan Murray — University of California - Santa Barbara

#### **Discussants:**

- Richard Church, University of California - Santa Barbara
- Xin Feng, University of California - Riverside
- Pedro Amaral, Cedeplar/UFGM

#### **74. Risks in Real Estate Markets**

**Friday Nov 13 | 12:00 PM-1:40 PM | Room: Boyce**

<https://us02web.zoom.us/j/81772106656?pwd=U01pUkliL29XWnV4OVliVmVubElldz09>

**Chair:** CHI HO TANG, Hong Kong Shue Yan University

- Capital Shocks and the Distribution of Risk in US Real Estate Markets: Unifying Mills, Wheaton, and Zipf Michiel N. Daams — University of Groningen, Philip McCann — University of Sheffield, Paolo Veneri — Oecd, Richard Barkham — CBRE Global Investors, Dennis Schoenmaker — Aew
- Real Options, Housing Price Risk, and Urban Sprawl: A Case Study of the Toronto Census Metropolitan Area Using Remotely Sensed Data, 1986  
2016 Diana Mok — University of Western Ontario, Jinfei Wang — University of Western Ontario, Xiaoxuan Sun — University of Western Ontario
- How is the commercial real estate market fairing during the 2019 Novel Coronavirus (COVID-19)? Yijia Wen — Florida State University, Li (Kerry) Fang — Florida State University, Qing Li — University of Florida
- A view from the top: Are top floor units good for consumption but bad for investment? CHI HO TANG — Hong Kong Shue Yan University, Ka Yui Leung — City University of Hong Kong

**Discussants:**

- Diana Mok, University of Western Ontario
- Yijia Wen, Florida State University
- CHI HO TANG, Hong Kong Shue Yan University
- Michiel N. Daams, University of Groningen

#### **75. Impacts of Energy Efficiency**

**Friday Nov 13 | 12:00 PM-1:40 PM | Room: China Data Institute**

<https://us02web.zoom.us/j/89253073405?pwd=MEVtcmd3S1QrbG82c1ZKcUdUNk9ZUT09>

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

- Economic Assessment of Eco-Friendly Vehicles: IO Application Hiroyuki SHIBUSAWA — Toyohashi University of Technology, Takato Nakayama — Toyohashi University of Technology
- Effects of wind energy input on the sectors of economic activity in the semiarid region of Bahia Carolina Silva Ribeiro — Federal University of Bahia, Gilca Oliveira — Federal University of Bahia

- Consumer preferences for risk sharing: An application to battery electric vehicles Christina Gore — Ohio State University, Andre Carrel — Ohio State University, Lee White — Australian National University

**Discussants:**

- Hiroyuki SHIBUSAWA, Toyohashi University of Technology
- Carolina Silva Ribeiro, Federal University of Bahia
- Christina Gore, Ohio State University

**76. Agricultural Issues: Production and Consumption**

**Friday Nov 13 | 12:00 PM-1:40 PM | Room: Hewings**

<https://us02web.zoom.us/j/87851752898?pwd=Qk94Nm1DQWdKd2JpRHVVT296Tjkvdz09>

**Chair:** Haoying Wang, New Mexico Institute of Mining and Technology

- Do agricultural subsidies foster Italian southern farms? A spatial quantile regression approach Marusca De Castris — Roma Tre University, Daniele Di Gennaro — Roma Tre University
- Market Access and Agricultural Land Use in Colombia Ricardo Arguello — Universidad de Ibagué, Andrés García-Suaza — Universidad EIA, Maryury Alzate — Universidad del Rosario
- Consumers' Willingness-to-pay for improved food safety on local fresh produce Kuan-Ming Huang — West Virginia University, Xiaoli Etienne — West Virginia University
- Climate variability and tea production in southeast China: Evidence from county-level data Haoying Wang — New Mexico Institute of Mining and Technology

**Discussants:**

- Ricardo Arguello, Universidad de Ibagué
- Kuan-Ming Huang, West Virginia University
- Haoying Wang, New Mexico Institute of Mining and Technology
- Marusca De Castris, Roma Tre University

**77. Perception and Reality**

**Friday Nov 13 | 12:00 PM-1:40 PM | Room: IMPLAN**

<https://us02web.zoom.us/j/83315708875?pwd=NmNYemlNZkdWNHdBcytzQkh2UVZLdz09>

**Chair:** Seong Yun, Mississippi State University

- The impact of the MeToo Scandal on women's perceptions of safety Laila AitBihiOuali — Imperial College London, Daniel Joseph Graham — Imperial College London



- Immigrant perception, poverty, and political insights Juan Tomas Sayago Gomez — Universidad Icesi
- Does immigration perception change if parents are non-citizens? SUVAYAN DE — University of Charleston
- Mismatch of Perception and Data: Air Pollution, Medical Expenses, and Consumption in South Korea Seong Yun — Mississippi State University, Seung Gyu Kim — Kyungpook National University

**Discussants:**

- Juan Tomas Sayago Gomez, Universidad Icesi
- SUVAYAN DE, University of Charleston
- Seong Yun, Mississippi State University
- Laila AitBihiOuali, Imperial College London

**78. Determinants of Housing Prices**

**Friday Nov 13 | 12:00 PM-1:40 PM | Room: Isard**

<https://us02web.zoom.us/j/85229119162?pwd=Q1BSbnBZZ1poN1M4TkZhS3FRbk03QT09>

**Chair:** Ziye Zhang, Cornell University

- Positive Outcome, Exclusive Process? Assessing Effects of Immigration on Housing Price Change in Established and New Destinations Anqi Xu — University of Louisville
- School Districts, Education Quality, and Housing Prices: Parental Valuation of Secondary Education in Korea Zoe Wang — Cornell University, John Carruthers — Cornell University
- Does Government Intervention Work in Seoul Housing Market? Application of integrated CGE Model with Regional Housing Economies Euijune Kim — Seoul National University, Ayoung Kim — Mississippi State University
- Air quality and Housing Price: An Empirical Analysis in Beijing Ziye Zhang — Cornell University, Wenzheng Li — Cornell University

**Discussants:**

- Zoe Wang, Cornell University
- Euijune Kim, Seoul National University
- Ziye Zhang, Cornell University
- Anqi Xu, University of Louisville

## 79. What Drives Innovation?

Friday Nov 13 | 12:00 PM-1:40 PM | Room: Stough

<https://us02web.zoom.us/j/84759203388?pwd=V2toK0NiaHRoZTBQKzFGN1JqZHRyZz09>

**Chair:** Karima Kourtit, Open University, Heerlen The Netherlands

- Where is Useful Novelty Generated? Agglomeration Size and the Returns to Normal and Novel Inventions Christopher Ross Esposito — University of California - Los Angeles
- Does Higher Level of Urbanization Promote Regional Innovation? Evidence from Russia Evgeniy Kutsenko — Higher School of Economics, Sabyasachi Tripathi — Higher School of Economics, Victoria Boos — Higher School of Economics
- Innovation and local labour markets: a panel analysis of France, Germany and the UK Carolin Ioramashvili — London School of Economics
- Innovativeness as a Product of Work-related and Place-based Conditions: Results of a Spatial Econometric and Machine Learning Approach Karima Kourtit — Open University, Heerlen The Netherlands, Peter Nijkamp — JADS, The Netherlands, Guney Celbis — Yeditepe University, Istanbul, Turkey, Pui-hang Wong — Maastricht University

### Discussants:

- Evgeniy Kutsenko, Higher School of Economics
- Carolin Ioramashvili, London School of Economics
- Karima Kourtit, Open University, Heerlen The Netherlands
- Christopher Ross Esposito, University of California - Los Angeles

**2:00 PM-3:40 PM**

## 80. Formal Paper Session: Location and Spatial Analysis II

Friday Nov 13 | 2:00 PM-3:40 PM | Room: Alonso

<https://us05web.zoom.us/j/88330705294?pwd=amlzMGpqYm9MTHJWdTNCSjJiMmFudz09>

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

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

- Strategic reduction of wildfire risk in the wildland-urban interface B. Amelia Pludow — University of California - Santa Barbara, Alan Murray — University of California - Santa Barbara
- A probabilistic approach to address data uncertainty in regionalization Ran Wei — University of California - Riverside, Sergio J. Rey — University of California - Riverside, Tony Grubestic — University of Texas - Austin
- Ignoring the Obvious, part II: why not generate all close-to-optimal solutions in spatial optimization? Richard Church — University of California - Santa Barbara

**Discussants:**

- Sergio Rey, University of California - Riverside
- Evgeny Noi, University of California - Santa Barbara
- Ran Wei, University of California - Riverside

**81. Spatial Spillover of Healthcare Provision**

**Friday Nov 13 | 2:00 PM-3:40 PM | Room: Boyce**

<https://us02web.zoom.us/j/81772106656?pwd=U01pUkliL29XWnV4OVliVmVubElldz09>

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

- Deploying Mobile Mammography Units for More Equitable Access to Care: Can Spatial Optimization Improve Deployment Strategies? Connor Donegan — University of Texas at Dallas, Amy E Hughes — University of Texas Southwestern Medical Center, Sandi L. Pruitt — University of Texas Southwestern Medical Center, Simon C. Lee — University of Texas Southwestern Medical Center
- Infectious Disease, Dynamic and Static Externalities in Two-Location Model Kiyoshi Yonemoto — Takasaki City University of Economics
- Spatial Supply of Healthcare in the United States Elizabeth A Dobis — USDA Economic Research Service

**Discussants:**

- Kiyoshi Yonemoto, Takasaki City University of Economics
- Elizabeth A Dobis, USDA Economic Research Service
- Connor Donegan, University of Texas at Dallas

**82. Covid-19: Role of Regional Economic Structure**

**Friday Nov 13 | 2:00 PM-3:40 PM | Room: China Data Institute**

<https://us02web.zoom.us/j/89253073405?pwd=MEVtcmd3S1QrbG82c1ZKcUdUNk9ZUT09>

**Chair:** Shriya Rangarajan, Cornell University

- Winners and losers from COVID-19 Outbreak in the U.S.: How Regional Economic Structure Matters? Ayoung Kim — Mississippi State University, Jaewon Lim — University of Nevada - Las Vegas, Aaron Colletta — University of Nevada - Las Vegas
- The geography of COVID-19 and the structure of local economies: The case of Italy Andrea Ascani — Gran Sasso Science Institute, Alessandra Faggian — Gran Sasso Science Institute, Sandro Montresor — Gran Sasso Science Institute
- Regional Economic Impact of COVID-19 in Colombia: An Input-Output Approach Jaime Bonet — Banco de la Republica, Luis Galvis — Banco de la Republica, Gerson Perez — Banco de la Republica, Diana Ricciulli — Banco de la Republica, Eduardo Haddad —

University of Sao Paulo, Inácio Araújo — University of Sao Paulo, Fernando Salgueiro Perobelli — Federal University of Juiz de Fora

- System modeling approaches to assessing food supply chain resilience with implications for COVID-19 Shriya Rangarajan — Cornell University

**Discussants:**

- Andrea Ascani, Gran Sasso Science Institute
- Jaime Bonet, Banco de la Republica
- Shriya Rangarajan, Cornell University
- Ayoung Kim, Mississippi State University

**83. Urbanization and Development**

**Friday Nov 13 | 2:00 PM-3:40 PM | Room: Hewings**

<https://us02web.zoom.us/j/87851752898?pwd=Qk94Nm1DQWdKd2JpRHVVT296Tjkvdz09>

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

- Effect of Urbanization on Urban and Rural Poverty Reduction in Developing Countries: Focusing on China, India, and Indonesia Seolah Bang — University of Seoul
- Urbanization and Human Development Index: Cross-country evidence Sabyasachi Tripathi — Higher School of Economics
- Gibrat's law and the growth of Brazilian cities Jorge Alberto Orellana Aragon — Universidade Federal de Rio Grande (FURG), Vivian dos Santos Queiroz Orellana — Universidade Federal de Rio Grande (FURG)
- Locked in underdevelopment? From development to migration. Karina Acosta — Cornell University, Hengyu Gu — University of Chicago

**Discussants:**

- Sabyasachi Tripathi, Higher School of Economics
- Jorge Alberto Orellana Aragon, Universidade Federal de Rio Grande (FURG)
- Karina Acosta, Cornell University
- Seolah Bang, University of Seoul

**84. Shaping Regions: Race, Ethnicity, and Immigration**

**Friday Nov 13 | 2:00 PM-3:40 PM | Room: IMPLAN**

<https://us02web.zoom.us/j/83315708875?pwd=NmNYemlNZkdWNHdBcytzQkh2UVZLdz09>

**Chair:** Ryan M Gallagher, Northeastern Illinois University

- Ethnic Enclaves: A Spatial Econometric Analysis of People of Color - Owned Businesses in the Twin Cities Area Luis Estevez — St. Cloud State University

- The impact of minority population on regional economy: Evidence from Japanese-american internment during world war ii Seunghun Chung — Ohio State University
- The Long-Run Demographic Impact of Post-War Land-Use Zoning: How Early Restrictive Land-Use Controls Shaped the Suburbs Ryan M Gallagher — Northeastern Illinois University

**Discussants:**

- Seunghun Chung, Ohio State University
- Ryan M Gallagher, Northeastern Illinois University
- Luis Estevez, St. Cloud State University

**85. Skills Composition in Regional Labor Markets**

**Friday Nov 13 | 2:00 PM-3:40 PM | Room: Isard**

<https://us02web.zoom.us/j/85229119162?pwd=Q1BSbnBZZ1poN1M4TkZhS3FRbk03QT09>

**Chair:** Isha Rajbhandari, University of Puget Sound

- Talent agglomeration in the United States: An analysis of U.S. Census Microdata Marian Manic — Whitman College, Douglas Woodward — University of South Carolina, Paulo Guimaraes — Bank of Portugal, Joseph Von Nessen — University of South Carolina
- "Meds and Eds" Across the Rural-Urban Continuum Bonnie E. Bounds — Texas A&M University, Tyler Morin — Ohio State University
- Labor Demand Shocks and Skill Composition: What we can learn from the Shale gas boom in the United States Isha Rajbhandari — University of Puget Sound, Daniel Crown — Congressional Budget Office, Rodrigo Perez-Silva — Universidad Mayor

**Discussants:**

- Bonnie E. Bounds, Texas A&M University
- Isha Rajbhandari, University of Puget Sound
- Marian Manic, Whitman College

**86. Urban Development in Developing Countries**

**Friday Nov 13 | 2:00 PM-3:40 PM | Room: Stough**

<https://us02web.zoom.us/j/84759203388?pwd=V2toK0NiaHRoZTBQKzFGN1JqZHRyZz09>

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

- Impacts of Infrastructure Development on Decentralized Indonesia Benedictus Raksaka Mahi — University of Indonesia, Budy P Resosudarmo — Australian National University
- The impact of transportation infrastructure in urban areas in developing countries: The case of Medellin Andrés García-Suaza — Universidad EIA, Hector Posada — Universidad

de Antioquia, Veronicq Uribe — Universidad de Antioquia, Luisa Mercado — Universidad de Antioquia

- The effect of subway expansion on travel times in Santiago-Chile. Evidence from Uber Data Movement Ariel Ulises Arcos — Catholic University of the North, Bernardo Lara, Dusan Paredes — Universidad Católica del Norte
- Urban economic complexity: Exploring urban morphology and economic complexity in Belo Horizonte, Brazil Lucas Magalhaes — University of Twente, Monica Amaral Haddad — Iowa State University, Monika Kuffer — University of Twente, Nina Schwarz — University of Twente

**Discussants:**

- Andrés García-Suaza, Universidad EIA
- Ariel Ulises Arcos, Catholic University of the North
- Lucas Magalhaes, University of Twente
- Benedictus Raksaka Mahi, University of Indonesia

**4:00 PM-5:40 PM**

**87. NARSC Award Session**

**Friday Nov 13 | 4:00 PM-5:40 PM | Room: IMPLAN**

<https://us02web.zoom.us/j/88131138447?pwd=ZWYxMHZCL2M4cDhsOFo5WCtIWmRLUT09>

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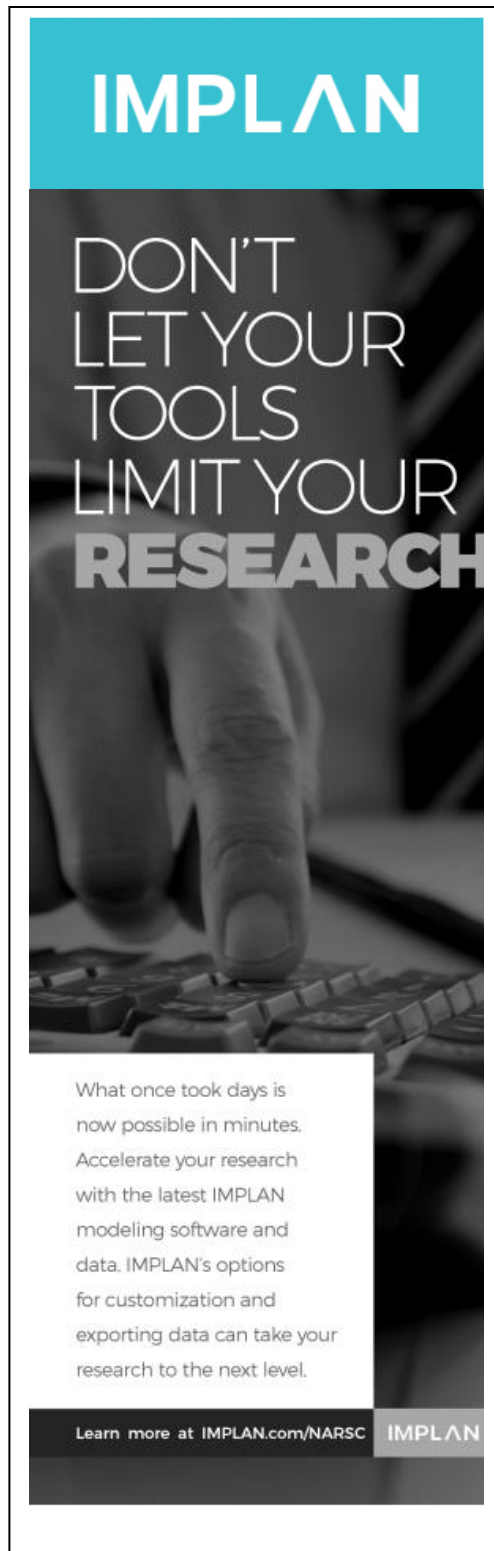


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