History of AERUS

The Midwest Graduate Student Summit began in 2008 as an initiative of the Space, Health, and Population Economics (SHaPE) research group in Purdue University’s Department of Agricultural Economics. These individuals wanted to create an event that encouraged the large number of graduate students studying these topics in the American Midwest to congregate and share ideas.

The summit has attracted graduate students primarily from Michigan State University, The Ohio State University, Purdue University, and University of Illinois at Urbana-Champaign. However, past participants include not only students from other Midwest universities, such as the University of Missouri and the University of Wisconsin-Madison, but also faculty members that have joined in the conference spirit by providing insightful comments to attendants.

Since 2008, the summit has been hosted at various intervals by The Ohio State University, Purdue University, and University of Illinois at Urbana-Champaign. It has evolved over the years depending of the scope of the hosting university and participants, but has always been a wonderful opportunity for young scholars to present their research and refine their ideas. This experience has helped them complete their master and doctoral dissertations, and provided an opportunity to build networking and presentation skills outside of their departments.

The University of Illinois at Urbana-Champaign will host the ninth annual Midwest Graduate Student Summit on Applied Economics, Regional, and Urban Studies (AERUS) on April 23rd-24th, 2016.

Sponsors

ACE Department of Agricultural and Consumer Economics

ECONOMICS

DEPARTMENT OF URBAN + REGIONAL PLANNING

ACES Office of International Programs

NARSC
Program Summary

Saturday, April 23

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:30am - 9:30am</td>
<td>Registration &amp; Breakfast</td>
<td>TBH - Atrium</td>
</tr>
<tr>
<td>9:30am - 11:00am</td>
<td>Parallel Sessions A</td>
<td>TBH - 18, 19, 223, 225, 325</td>
</tr>
<tr>
<td>11:15am - 12:45pm</td>
<td>Parallel Sessions B</td>
<td>TBH - 18, 19, 223, 225, 325</td>
</tr>
<tr>
<td>12:45pm - 2:00pm</td>
<td>Lunch</td>
<td>TBH - Atrium</td>
</tr>
<tr>
<td>2:00pm - 3:30pm</td>
<td>Faculty Panels</td>
<td>TBH - 223, 134</td>
</tr>
<tr>
<td>3:30pm - 3:45pm</td>
<td>Coffee Break</td>
<td>TBH - Atrium</td>
</tr>
<tr>
<td>3:45pm - 5:00pm</td>
<td>Keynote Speaker (Joshua Woodard)</td>
<td>TBH - 134</td>
</tr>
<tr>
<td>6:00pm - 8:30pm</td>
<td>Reception Dinner</td>
<td>SDRP - 2025BA (Multi-Purpose Room)</td>
</tr>
</tbody>
</table>

Sunday, April 24

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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</tr>
</thead>
<tbody>
<tr>
<td>8:00am - 8:30am</td>
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</tr>
<tr>
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<td>Lightning Session</td>
<td>TBH - 134</td>
</tr>
<tr>
<td>9:15am - 10:45am</td>
<td>Parallel Sessions C</td>
<td>TBH - 18, 19, 223, 225, 325</td>
</tr>
<tr>
<td>10:45am - 12:30pm</td>
<td>Keynote Speaker (Art Getis)</td>
<td>TBH - 134</td>
</tr>
<tr>
<td>12:30pm - 1:30pm</td>
<td>Lunch &amp; Conclusion</td>
<td>TBH - Atrium</td>
</tr>
<tr>
<td>1:30pm - 3:00pm</td>
<td>An introduction to spatial econometrics in R</td>
<td>TBH - 134</td>
</tr>
</tbody>
</table>

Venues

TBH: Temple Hoyne Buell Hall
Address: 611 Lorado Taft Drive, Champaign, IL

SDRP: Student Dining and Residential Programs Building
Address: 301 E Gregory Dr, Champaign, IL
Saturday, April 23

8:30am - 9:30am  Registration & Breakfast  TBH - Atrium

9:30am - 11:00am  Parallel Sessions A  TBH - 18

A1  Energy  TBH - 18

Alternative explanations for low energy efficiency of rented residential units
  Mateus Nogueira Meirelles de Souza - UIUC  (Chair)

Rents, yields and hydraulic fracturing: the case of the Bakken
  T.J. Rakitan - Iowa State

Generation and Transmission Expansion Planning with Large-Scale Renewable Energy Integration
  Hyungkwan M Kim - Purdue

The Economic Impacts of Shale Gas Developments: A Long Term Analysis and Comparison Across Regions in the USA
  Isha Rajbhandari - Ohio State

A2  Housing & Urban Structure  TBH - 19

Population Growth in American Cities between 1990 and 2010: Hierarchy and Spatial Contagion
  Elizabeth Dobis - Purdue  (Chair)

Urban spatial structure and changes in population and employment: evidence from a Japanese metropolitan area
  Akiko Sakanishi - UIUC

Public Housing Policy, Hopefulness, and Labor Market Participation: Evidence from Public Housing Programs in Central Illinois
  Han Bum Lee - UIUC
A3  Public Finance  TBH - 223

Yizhou Zhang - UIUC  (Chair)

Non-linear tenure effects on the geographic distribution of federal outlays  
Cesare Buiatti - UIUC

A Study on the Impact of Intergovernmental Vertical Tax Competition on Tax Revenue Growth in China —— An Empirical Analysis Based on Provincial Panel Data  
Chuanyi Guo - UIC

Intergovernmental transfers: impacts on inter and intra regional inequalities  
Renata Caldas - University of Pernambuco, Brazil

The impact of fiscal decentralization on regional social inequality: a study for a Spanish peripheral region  
Laura Varela Candamio - University of A Coruna

A4  Poverty & Inequality  TBH - 225

Poor Mexican Areas or Poor Mexican People? A Cross-Municipality Analysis of the Causes of Poverty in Mexico and Some Policy Implications  
Ariadna Martínez González - Ohio State  (Chair)

Knowledge spillovers and wage inequality. The side effect of the concentration of highly educated workers in U.S. cities  
Rodrigo Pérez Silva - Ohio State

Childhood poverty exposure and income mobility: a Generalized Propensity Score approach  
Tim Smith - Purdue

Does the Regional Factors Matter on the Intergenerational Elasticity of Poverty  
Huan Li - Purdue

Sources of Wage Inequality: Additive Decomposition of the Gini Coefficient Using Quantile Regression  
Carlos Hurtado - UIUC
9:30am - 11:00am

A5  
Crime & Urban Decay  
TBH - 325

Do More Eyes on the Street Reduce Crime? Evidence using Chicago’s Safe Passage Program

Ignacio Sarmiento-Barbieri - UIUC  (Chair)

Do Private Prisons Practice Cream Skimming?

Saiah Lee - Wisconsin-Madison

Pittsburgh, 1980: the year steel left the "Steel City": Demographic and Economic impacts of Post-Deindustrialization in Pittsburgh, PA

Cristen Hardin - UIUC

11:15am - 12:45pm

B1  
Transportation  
TBH - 18

Mapping Food Accessibility by Differing Modes of Transportation in Champaign-Urbana

Marcia Klopf and Emelye Weimer - UIUC  (Chair)

What is the Effect of Fare Hikes on Transit Ridership?

Renato Vieira - UIUC

Does High-Speed Railway Strengthen the Ties among Nearby Provinces? Evidence from China?

Xiaochen Zhang - Ohio State

Measuring Spatial Effects of Multiple Sites - Application to housing value and accessibility to train stations in Tokyo

Taisuke Sadayuki - UIUC

Causal Identification of Gentrification and Socioeconomic Impacts of Urban Rail

Eleni Bardaka - Purdue
B2  Entrepreneurship  TBH - 19

The Impact of Walkable Urban Design on Sales Volume: Comparing Phoenix and Boston
  
  Kevin Credit - Michigan State  (Chair)

Micro Enterprise Policies in Chile: The Case of Centro de Emprendimientos Chile Compra
  
  Sergio Contreras - UIUC

Joint Liability Lending with Correlated Risks
  
  Godwin Debrah - Michigan State University

Gift Exchange and On The Job Competition: Theory and Evidence
  
  Stanton Hudja - Purdue

Family Business Sustainability
  
  Yonzhi Wang - Purdue

B3  Environment & Natural Resources  TBH - 223

Household induced effects and environmental externalities: International patterns of water pollution through a Structural Decomposition Analysis
  
  Alberto Franco Solís - Extremadura  (Chair)

Filtering Out the Benefits: The Impact of Micro-Health Insurance on the Demand for In-Home Water Treatment
  
  Christopher C. Dunphy - Ohio State

The Environmental Costs of Fossil Fuel Subsidy Removal: Evidence from Thailand’s transport sector
  
  Thanicha Ruangmas - Wisconsin-Madison

Stock Effect: Evidence from Pacific Halibut Fishery
  
  Somenath Bera - Iowa State

Who should provide public good? Implication of different forest management policies in Nepal
  
  Aparna Howlader - UIUC
11:15am - 12:45pm

B4 Industrial Organization & Sectoral Analysis  TBH - 225

Labor conditions to discipline journalism in a neoliberal society: The case of the collective bargaining in the Chilean television

Claudia Lagos - UIUC  (Chair)

Hypothetical Extraction Method for the Spanish economy: Special attention to ophthalmic optics

Margarita Barrera - University of Seville

A Follow-Up to 'Land Price Volatility in a Geographically Dispersed Market': Updates to Data and Methodology

Jeffrey S. Young - Purdue

Separating rational herding among firms and spatial clustering of demand: A case in branch banking

Wade Litt - Ohio State

The Components of the Bid-Ask Spread: Evidence from the Corn Futures Market

Quanbiao Shang - UIUC

B5 Urban & Regional Agglomeration  TBH - 325

Spillover Effect of Foreign Direct Investment on Productivity of Domestic Firms: Identification from Borders of Chinese Dialect Zones.

Sen Ma - UIUC  (Chair)


Ayoung Kim - Purdue

Dynamic agglomeration economies, start-ups and relocation of manufacturing and business services establishments

Francisco Scott - Purdue

Will Moving to Work Work? Evidence from Panel Data

Han Bum Lee - UIUC

The productive efficiency of Spanish provinces How to introduce the spatial dependence in a parametric approach

Alberto Gude - University of Oviedo
### Faculty Panels

#### 2:00pm - 3:30pm

<table>
<thead>
<tr>
<th>Panel</th>
<th>Topic</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>P1</td>
<td>Climate Change</td>
<td>TBH - 134</td>
</tr>
<tr>
<td>P2</td>
<td>International Policy and Development</td>
<td>TBH - 223</td>
</tr>
</tbody>
</table>

**P1: Climate Change**

- **David Albouy** - Associate Professor of Economics - UIUC
- **Sandy Dall'erba** - Associate Professor of Agricultural and Consumer Economics - UIUC
- **Tatyana Deryugina** - Assistant Professor of Finance - UIUC
- **Ryan Sriver** - Assistant Professor of Atmospheric Sciences - UIUC

*Discussant:*
- **Amy Ando** - Professor of Agricultural and Consumer Economics - UIUC

**P2: International Policy and Development**

- **Marc Doussard** - Assistant Professor of Urban and Regional Planning - UIUC
- **Hope C. Michelson** - Assistant Professor of Agricultural and Consumer Economics - UIUC
- **Saweda Liverpool-Tasie** - Assistant Professor of Agricultural, Food, and Resource Economics - Michigan State University
- **Rebecca Thornton** - Associate Professor of Economics - UIUC

*Discussant:*
- **Kathy Baylis** - Associate Professor of Agricultural and Consumer Economics - UIUC

### 3:30pm - 3:45pm

**Coffee Break**

**Location**: TBH - Atrium
Joshua D. Woodard  
Assistant professor and the Zaitz Faculty Fellow of Agribusiness and Finance in the Dyson School of Applied Economics and Management at Cornell University  

*Integrating High Resolution Soil Data into Federal Crop Insurance Policy: Implications for Policy and Conservation*  

6:00pm - 8:30pm  
**Reception Dinner**  
SDRP - 2025BA  

All participants of AERUS are invited to our reception on Saturday evening.  

The reception will be held at the Multipurpose room (2025BA) of the Student Dining and Residential Programs Building (SDRP). The Multipurpose room is located at the second floor of the building.  

The address of SDRP is 301 E Gregory Dr., which is can be reached with a 10 minutes walk from Temble Hoyne Buell Hall.
Sunday, April 24

8:00am - 8:30am
Breakfast
TBH - Atrium

8:30am - 9:00am
Lightning Session
TBH - 134

Climate change interactions with agriculture, forestry sequestration, and food security
Luis M Pena Levano - Purdue

Electronic voting and Social Spending: The impact of enfranchisement on municipal public spending in Brazil
Rodrigo Schneider - UIUC

Effects of Time Cost on the Trade Pattern
Suprabha Baniya - Purdue

9:15am - 10:45am
Parallel Sessions C

C1

Jasper Grashuis - Missouri-Columbia (Chair)

Trade Liberalization and Investment in Children’s Human Capital: Evidence from the U.S.-Vietnam Bilateral Trade Agreement
Minh Nguyen - UIC

Agriculture Productivity, International Trade and Food Security: some implications from a greater productivity in Brazil
Vinicius Vale - Juiz de For a, Brazil

Effects of Time Cost on the Trade Pattern
Suprabha Baniya - Purdue
C2  Climate Change  TBH - 19

Business as usual or not? Regional resilience of firms and local economies in disaster scenarios
  Benjamin Jara - .  (Chair)

The Linkage Between Agricultural Extension and Environmental Sustainability: An Ex-post Impact Evaluation of the Adoption of Climate Smart Agricultural Practices in Southern Malawi.
  Festus O Amadu - UIUC

Integrating HAZUS and Input-Output for recovery path analysis: an application to the 2007 Chehalis River Flood (WA)
  Andre Fernandes Tomon Avelino - UIUC

Climate change interactions with agriculture, forestry sequestration, and food security
  Luis M Pena Levano - Purdue

C3  Migration  TBH - 223

Who Suffered More During the Economic Recession: Local Residents or Migrants?
  Xiaochen Zhang - Ohio State  (Chair)

Heterogeneous Returns to Migration of Married Couples: Evidence from a Quantile Treatment Effects Model
  Daniel Crown - Ohio State

The Change in Income of Rural Households as a Result of Seasonal Migration
  Yong Jee Kim - Purdue

The Lift of the Trade Embargo and Corporate Policies: Evidence from the Immigrants’ Network
  Mehrnoosh Shabhosseini - UIUC
The Missing Strands in the Web of Regional Economic Resilience
Timothy Jaquet - Ohio State  (Chair)

Which Type of Trust Matters?: Interpersonal vs. Institutional vs. Political Trust
In Do Hwang - UIUC

The strategy of "Nuclear Ambiguity"
Ariel Roginsky - Wisconsin-Madison

Electronic voting and Social Spending: The impact of enfranchisement on municipal public spending in Brazil
Rodrigo Schneider - UIUC

Factors of production, productivity and institutions: evidences for Brazil
Luciano Nakabashi - University of São Paulo, Brazil

Querying the Perverse Incentive of Minimum Wage on Education: Evidence from Indonesia
Daniel Halim - UIUC  (Chair)

Effects of household asset holdings on child educational performance: Evidence from Tanzania
Kashi Kafle - UIUC

How does school starting age affect cognitive and non-cognitive skills?
Jianfeng Xu - UIUC

Schooling Infrastructure and Literacy - Evidence from a National Education Mission in India
Chitra Jogani - UIUC
11:00am - 12:30pm  
**Keynote Speaker**

Arthur Getis  
Distinguished Professor of Geography - Emeritus at San Diego State University

*Spatial Consequences, the Good and the Bad*

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12:30pm - 1:30pm  
**Lunch & Conclusions**

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1:30pm - 3:00pm  
**An introduction to spatial econometrics in R**

Roger Koenker - William B. McKinley Professor of Economics - UIUC

Ignacio Sarmiento-Barbieri - Ph.D. Student in Economics - UIUC

This one-day introductory workshop is designed for researchers at any stage of their careers, including undergraduate and graduate students, postdocs, faculty and scientists at research institutions. The objective is to introduce the audience to the statistical language R and how it can be used for spatial econometrics. Participants are encouraged to bring their own laptop for use in the workshop tutorial sessions with R installed. R can be obtained from CRAN, by clicking on [http://cran.r-project.org](http://cran.r-project.org) and choosing the appropriate operating system.

The topics of the course will contain an introduction to R packages for the analysis of spatial data. This includes data visualization, and estimation of spatial models. The workshop is designed to be a hands on and no previous experiences on R is required. The mini-course will introduce the statistical concepts behind the analysis, but a basic knowledge of statistics and regression analysis is necessary.
Keynote Speakers

Arthur Getis

ARTHUR GETIS is Distinguished Professor of Geography Emeritus at San Diego State University.

His Ph.D. is from the University of Washington and Master’s and Bachelor’s degrees are from the Pennsylvania State University. He had been president of several academic societies including the Western Regional Science Association and the University Consortium for Geographical Information Sciences. He has published widely, including a number of articles with J. Keith Ord, on the creation and development of local statistics, and books with Barry Boots on spatial pattern analysis, published by Cambridge University Press and Sage Scientific Books. He has also developed widely used spatial clustering algorithms and spatial filtering techniques. In addition, he has edited a number of scholarly texts on spatial analysis including Handbook of Applied Spatial Analysis (with M.M. Fischer).

A festschrift in his honor edited by Luc Anselin and Serge Rey, Perspectives on Spatial Data Analysis, was published in 2010. He is now honorary editor-in-chief of the Journal of Geographical Systems, a journal he founded with Manfred M. Fischer. With the support of NIH and NICHD, he is doing research on the transmission of infectious diseases in Thailand and West Africa. He has received the Walter Isard Distinguished Scholarship award from the North American Regional Science Association, Distinguished Scholarship honors from the Association of American Geographers (AAG), and the Robert Ageenbrug Distinguished Career award from the Geographic Information Systems Specialty Group of the AAG. He is a fellow of the Western Regional Science Association, the Regional Science Association International, and the University Consortium for Geographical Information Science. He recently received the Founder's Medal of the Regional Science Association International. He is the joint sponsor of the Getis-Ord Lecture in Spatial Analysis of the Western Regional Science Association.

Joshua D. Woodard

JOSHUA WOODARD, PH.D. is an assistant professor and the Zaitz Faculty Fellow of Agribusiness and Finance in the Dyson School of Applied Economics and Management at Cornell University. His research focuses primarily on data analytics and policy in agricultural finance, insurance, & risk management. Ag-Analytics.org
Panel Presenters

**Climate Change**

Amy W. Ando  
Professor of Agricultural and Consumer Economics - UIUC  
(Discussant)

David Alouby  
Associate Professor of Economics - UIUC

Sandy Dallerba  
Associate Professor of Agricultural and Consumer Economics - UIUC

Tatyana Deryugina  
Assistant Professor of Finance - UIUC

Ryan Sriver  
Assistant Professor of Atmospheric Sciences - UIUC

**International Policy and Development**

Kathy Baylis  
Associate Professor of Agricultural and Consumer Economics - UIUC

Marc Doussard  
Assistant Professor of Urban and Regional Planning - UIUC

Hope C. Michelson  
Assistant Professor of Agricultural and Consumer Economics - UIUC

Saweda Liverpool-Tasie  
Assistant Professor of Agricultural, Food, and Resource Economics - Michigan State University

Rebecca Thornton  
Associate Professor of Economics - UIUC
Workshop Instructors

Ignacio Sarmiento-Barbieri
lab consultant of the Econometrics Lab at Illinois - UIUC

Roger Koenker
William B. McKinley Professor of Economics - UIUC

AERUS Organizing Committee

Aparna Howlader
PhD student in Agricultural and Consumer Economics - UIUC

Cesare Buiatti
PhD candidate in Economics - UIUC

Kashi Kafle
PhD candidate in Agricultural and Consumer Economics - UIUC

Renato Vieira
PhD student in Agricultural and Consumer Economics - UIUC

Sergio Contreras
PhD student in Urban and Regional Planning - UIUC
List of Participants

Akiko Sakanishi, A2
Alberto Franco Solís, B3
Alberto Gude, B5
Amy Ando, P1
Andre Fernandes Tomon Avelino, C2
Aparna Howlader, B3
Ariadna Martínez González, A4
Ariel Roginsky, C4
Arthur Getis, KS2
Ayoung Kim, B5
Benjamin Jara, C2
Carlos Hurtado, A4
Cesare Buiatti, A3
Chitra Jogani, C5
Christopher C. Dunphy, B3
Chuanyi Guo, A3
Claudia Lagos, B4
Cristen Hardin, A5
Daniel Crown, C3
Daniel Halim, C5
David Albouy, P1
Eleni Bardaka, B1
Elizabeth Dobis, A2
Festus O Amadu, C2
Francisco Scott, B5
Godwin Debrah, B2
Han Bum Lee, A2
Han Bum Lee, B5
Hope C. Michelson, P2
Huan Li, A4
Hyungkwan M Kim, A1
Ignacio Sarmiento-Barbieri, A5
In Do Hwang, C4
Isha Rajbhandari, A1
Jasper Grashuis, C1
Jeffrey S. Young, B4
Jianfeng Xu, C5
Joshua D. Woodard, KS1
Kashi Kafle, C5
Kathy Baylis, P2
Kevin Credit, B2
Laura Varela Candalmo, A3
Luciano Nakabashi, C4
Luis M Pena Levano, C2
Marc Doussard, P2
Marcia Klopf and Emelye Weimer, B1
Margarita Barrera, B4
Mateus Nogueira Meireles de Souza, A1
Mehrnoush Shahhosseini, C3
Minh Nguyen, C1
Quanbiao Shang, B4
Rebecca Thornton, P2
Renata Caldas, A3
Renato Vieira, B1
Rodrigo Perez Silva, A4
Rodrigo Schneider, C4
Ryan Sriver, P1
Saiah Lee, A5
Sandy Dall’erba, P1
Saweda Liverpool-Tasie, P2
Sen Ma, B5
Sergio Contreras, B2
Somenath Bera, B3
Stanton Hudja, B2
Suprabha Baniya, C1
T.J. Rakitan, A1
Taisuke Sadayuki, B1
Tatyana Deryugina, P1
Thanich Raungmas, B3
Tim Smith, A4
Timothy Jaquet, C4
Vinicius Vale, C1
Wade Litt, B4
Xiaochen Zhang, B1
Xiaochen Zhang, C3
Yizhou Zhang, A3
Yong Jee Kim, C3
Youzhi Wang, B2