**2023 Conference Program**



**Mid-Continent**

**Regional Science Association**

**53rd Annual Conference**

**IMPLAN 15th**

**National User’s Conference**

**Final Version**

**June 7-9, 2023**

**L.V. Eberhard Center**

**Grand Valley State University**

**Grand Rapids, Michigan**

**The Mid-Continent Regional Science Association**

**Officers**

Craig Carpenter, Past President

Michigan State University

Sumei Zhang, President

University of Louisville

Candi Clouse, President Elect

IMPLAN

Dagney Faulk, Vice President

Ball State University

G. Jason Jolley, Executive Director

Ohio University

Tessa Conroy, Representative to the North American Regional Science Council  
University of Wisconsin, Madison

***The Journal of Regional Analysis & Policy***

Joshua Hall, Editor-in-Chief  
West Virginia University

Co-Editors:  
Amir Neto, Florida Gulf Coast University  
Jamie Pavlik, Texas Tech University

Advisory Editor:  
Richard Cebula, George Mason University

**2023 Meeting Program Committee**

***Special thanks to IMPLAN for their generous sponsorship of the conference.***

**MCRSA Program Schedule Overview**

**~ June 7-9, 2023 ~**

**L.V. Eberhard Center, Grand Valley State University, Grand Rapid, MI**

**Wednesday, June 7**

3:00-5:30 **MCRSA Executive Committee** (open invitation)

6:00-8:00 **Registration and Conference Reception**

**Thursday, June 8**

7:30-10:30 **Registration**

7:30-8:00 **Continental Breakfast**

8:00-8:20 **Conference Welcome**

**Breakout**

8:30-10:00 1 2 3

10:00-10:30 **Conference Break**

10:30-12:00 4 5 6

12:00-1:45 **Conference Lunch**, Awards, Speaker

2:00-3:30 7 8

3:30-3:45 **Conference Break**

3:45-5:15 9 10 11

**Friday, June 9**

7:45-8:45 **Conference Breakfast Buffet**

8:15 -8:45 **MCRSA Business Meeting** – During Breakfast

9:00-10:30 12 13

10:45-12:15 14

12:15 p.m. **Conference Adjourns - Safe Travels!**

**2023 Annual Meeting**

**PROGRAM**

**Wednesday, June 7, 2023**

3:00 p.m. – 5:30 p.m.

**MCRSA Executive Committee Meeting**

Open Invitation

***Location: Foundation Room***

6:00 p.m. – 8:00 p.m.

**Conference Welcome Reception**

Registration

Complimentary hors d’oeuvres and bar.

***Location: East Lobby***

**Thursday, June 8, 2023**

7:30 a.m. – 10:00 a.m.

**Registration**

***Location: East Lobby***

7:30 a.m. – 8:00 a.m.

**Continental Breakfast**

***Location: East Lobby***

8:00 a.m. – 8:15 a.m.

**Conference Welcome**

***Location: 215-AH***

**Thursday, June 8, 2023**

8:30 a.m. – 10:00 a.m.

**Session 1: Food & Beverage Policy and Pricing**

***Location: 215-B***

**Session Chair:** Minh Nguyen

**Changes in State Minimum Wage and the Price of Food Away from Home**

Fernanda Alfaro, Michigan State University [fernanda.alfaro.g@gmail.com](mailto:fernanda.alfaro.g@gmail.com)

Scott Loveridge, Michigan State University

Mark Skidmore, Michigan State University [mskidmor@msu.edu](mailto:mskidmor@msu.edu)

Dusan Paredes, Universidad Católica del Norte

**Economic Impact Analysis of a Community Solar Program in the State of Ohio**

Tuyen Pham, Ohio University [tuyen.pham@ohio.edu](mailto:tuyen.pham@ohio.edu)

Clara Bone, Ohio University [bone@ohio.edu](mailto:bone@ohio.edu)

**The Long-Term Effects of Increasing the Minimum Legal Drinking Age on Organ Failure**

Minh Nguyen, Ball State University [mtnguyen@bsu.edu](mailto:mtnguyen@bsu.edu)

Nikolay Ushakov, Ball State University

**Discussants:**

Tuyen Pham  
Minh Nguyen

Fernanda Alfaro

**Thursday, June 8, 2023**

8:30 a.m. – 10:00 a.m.

**Session 2: Race & Tribal Economics**

***Location: 215-C***

**Session Chair:** Brigid Tuck

**Competitive effects of student transfers: An analysis of Indiana school choice programs’ impacts on students who do not transfer**

Whitney Bross, Butler University

Srikant Devaraj, Ball State University

Dagney Faulk, Ball State University [dgfaulk@bsu.edu](mailto:dgfaulk@bsu.edu)

Michael Hicks, Ball State University [mhicks@bsu.edu](mailto:mhicks@bsu.edu)

**Economic Contribution of American Indian Health Care Spending in Northwest Minnesota**

Brigid Tuck, University of Minnesota [tuckb@umn.edu](mailto:tuckb@umn.edu)

Rani Bhattacharyya, University of Minnesota

**Business Activity in Tribal Areas during the Self-Determination & Nation-to-Nation Eras: Parametric and Non-Parametric Approaches**

Thomas Keene, Michigan State University [keenetho@msu.edu](mailto:keenetho@msu.edu)

John Mann, Michigan State University

Elizabeth Mack, Michigan State University

Scott Loveridge, Michigan State University

**Discussants:**

Brigid Tuck

Thomas Keene

Dagney Faulk

**Thursday, June 8, 2023**

8:30 a.m. – 10:00 a.m.

**Session 3: Race and Economics**

***Location: 215-G***

**Session Chair:** Tessa Conroy

**Racial Bias in Property Taxation in Atlanta: The Difficulty in Reversing Structural Racism**

Syed Fuad, Texas Tech University

Michael Farmer, Texas Tech University [michael.farmer@ttu.edu](mailto:michael.farmer@ttu.edu)

**Military service as a pathway to entrepreneurship for women and racial/ethnic minorities**

Michael Lotspeich-Yadao, University of Illinois - Urbana-Champaign [mlots2@illinois.edu](mailto:mlots2@illinois.edu)

Craig Carpenter, Michigan State University

Charles Tolbert, Baylor University

**Diverse Populations and Nonemployer Business Growth**

Tessa Conroy, University of Wisconsin – Madison [tessa.conroy@wisc.edu](mailto:tessa.conroy@wisc.edu)

**Discussants:**

Michael Lotspeich-Yadao

Tessa Conroy

Michael Farmer

**Thursday, June 8, 2023**

10:00 a.m. – 10:30 a.m.

**Conference Coffee Break**

***Location: East Lobby***

**Thursday, June 8, 2023**

10:30 a.m. – 12:00 p.m.

**Session 4: Regional Issues**

***Location: 215-B***

**Session Chair:** Timothy Hodge

**A Comparison of Submarket Separation Techniques: A Case in the City of Atlanta**

Abidemi Adisa, Tufts University

Syed Fuad, Texas Tech University

Michael Farmer, Texas Tech University [michael.farmer@ttu.edu](mailto:michael.farmer@ttu.edu)

**Unfair Advantage: Assessment Growth Limits and Non-Residential Property**

Timothy Hodge, Oakland University [trhodge@oakland.edu](mailto:trhodge@oakland.edu)

Kevin Guo,

**Broadband access and knowledge spillover influence on SBIR Phase II awards in non-metropolitan regions**

Thomas Keene, Michigan State University [keenetho@msu.edu](mailto:keenetho@msu.edu)

John Mann, Michigan State University

Elizabeth Mack, Michigan State University

Scott Loveridge, Michigan State University

**Discussants:**

Timothy Hodge

Thomas Keene

Michael Farmer

**Thursday, June 8, 2023**

10:30 a.m. – 12:00 p.m.

**Session 5: Government Regulations and Mandates**

***Location: 215-C***

**Session Chair:** Amit Batabyal

**On Mask Wearing in Environments With and Without a Mask Mandate**

Amit Batabyal, Rochester Institute of Technology [aabgsh@rit.edu](mailto:aabgsh@rit.edu)

**Armed Conflict and Unemployment in Colombia: The Role of US Drug Interdiction Policy**

Christopher John Cruz, Grand Valley State University [cruzch@gvsu.edu](mailto:cruzch@gvsu.edu)

Manuel Pulido-Velasquez, Universidad del Rosario

Alexander Alegria-Castellanos, Pontificia Universidad Javeriana-Cali

**Tropical cyclone day-off orders, warnings, and avoidance behavior: Do we need government mandated orders?**

Pei Jyun Lu, Michigan State University [lupeijyu@msu.edu](mailto:lupeijyu@msu.edu)

Mark Skidmore, Michigan State University [mskidmor@msu.edu](mailto:mskidmor@msu.edu)

**Discussants:**

Christopher John Cruz

Pei Jyun Lu

Amit Batabyal

**Thursday, June 8, 2023**

10:30 a.m. – 12:00 p.m.

**Session 6: What’s New & What’s Next in IMPLAN**

***Location: 215-G***

Join Candi Clouse, the VP of Customer Success and Education Services with IMPLAN as we walk through the latest and greatest developments in the IMPLAN Cloud application. Dr. Clouse will highlight exciting new features from recent product releases and preview what’s coming this summer. In this interactive session, there will also be time to get your ideas on what features you would like to see next.

Candi Clouse, IMPLAN [candi.clouse@implan.com](mailto:candi.clouse@implan.com)

**Thursday, June 8, 2023**

12:00 noon – 1:45 p.m.

***Location: 215-DE***

**Conference Buffet Luncheon & MCRSA Awards**

1. Leadership Award presented to Sumei Zhang, President 2022-2023
2. Distinguished Fellow Award presented to Joshua Hall
3. Early Career Award presented to Amir Neto
4. 2023 Research Impact Award for the Most Outstanding *Journal of Regional Analysis & Policy*Article presented to Amanda Weinstein for (2014) "Local labor market restructuring in the shale boom." 44(1), 71-92.
5. M. Jarvin Emerson Student Paper Competition Award presented to Kile Byington. “Beyond the Dollar: Quantifying the Effect of Ohio Library Operating Levy Revenue”

**Thursday, June 8, 2023**

2:00 p.m. – 3:30 p.m.

**Session 7: Presidential Symposium**

***Location: 215-B***

**Organizer:** Candi Clouse

**Session Chair:** Candi Clouse

**Impact Factors: Methodological Standards for Applied Input-Output Analysis**

Candi Clouse, IMPLAN [candi.clouse@implan.com](mailto:candi.clouse@implan.com)

Jenny Thorvaldson, IMPLAN

G. Jason Jolley, Ohio University [jolleyg1@ohio.edu](mailto:jolleyg1@ohio.edu)

**Economic & Environmental Impacts of Opening the Carolina Lithium Belt**

Kristin Stowe, Wingate University [kstowe@wingate.edu](mailto:kstowe@wingate.edu)

**Economic Impact of the Las Cruces Innovation and Industrial Park, 2021-2030**

Kramer Winingham, New Mexico State University [jkramer@nmsu.edu](mailto:jkramer@nmsu.edu)

Lucinda Vargas, New Mexico State University

Christopher A. Erickson, New Mexico State University

**Discussants:**

Kristin Stowe

Kramer Winingham

Candi Clouse

**Thursday, June 8, 2023**

2:00 p.m. – 3:30 p.m.

**Session 8: Quality of Life and Real Estate**

***Location: 215-C***

**Chair:** Amanda Weinstein

**Business Dynamism and Quality of Life**

Amanda Weinstein, University of Akron [aweinstein@uakron.edu](mailto:aweinstein@uakron.edu)

Michael Hicks, Ball State University [mhicks@bsu.edu](mailto:mhicks@bsu.edu)

Emily Wornell, Ball State University [ejwornell@bsu.edu](mailto:ejwornell@bsu.edu)

**Retirement, Health Investments, and Cognitive Decline Among Older Americans**

Christopher John Cruz, Grand Valley State University [cruzch@gvsu.edu](mailto:cruzch@gvsu.edu)

**Information and Intrajurisdictional Capitalization**

Andrew McAllister, Oakland University amcallister@oakland.edu

Timothy Hodge, Oakland University [trhodge@oakland.edu](mailto:trhodge@oakland.edu)

**Discussants:**

Christopher John Cruz

Andrew McAllister

Amanda Weinstein

**Thursday, June 8, 2023**

3:30 p.m. – 3:45 p.m.

**Conference Coffee Break**

***Location: East Lobby***

**Thursday, June 8, 2023**

3:45 p.m. – 5:15 p.m.

**Session 9: M. Jarvin Emerson Student Paper Competition & Other Student Papers**

***Location: 215-B***

**Session Chair:** Dagney Faulk [dgfaulk@bsu.edu](mailto:dgfaulk@bsu.edu)

**Beyond the Dollar: Quantifying the Effect of Ohio Library Operating Levy Revenue**

Kile Byington, University of Akron [kb264@uakron.edu](mailto:kb264@uakron.edu)

**County level economic impacts from a loss in the number of dairy farms**

Rebecca Weir, University of Minnesota [weirx116@umn.edu](mailto:weirx116@umn.edu)

**Economic Impact of SBIR and STTR in Alabama**

Claire Bergner, University of Alabama in Huntsville [cb0222@uah.edu](mailto:cb0222@uah.edu)

**Discussants:**

Dagney Faulk

Candi Clouse

**Thursday, June 8, 2023**

3:45 p.m. – 5:15 p.m.

**Session 10: COVID**

***Location: 215-C***

**Session Chair:** Amir Neto

**Subsidized Wage, Small Businesses, and Exports: Evidence from the Paycheck Protection Program**

Ali Enami, The University of Akron [ae28@uakron.edu](mailto:ae28@uakron.edu)

Sucharita Ghosh, The University of Akron

**Covid-19 & Mitigation Policies in Southwest Florida: an input-output analysis**

Amir Neto, Florida Gulf Coast University [aborgesferreiraneto@fgcu.edu](mailto:aborgesferreiraneto@fgcu.edu)

Daniel Centurião, West Virginia University

Caroline Welter, West Virginia University

Fernando Perobelli, Universidade Federal de Juiz de Fora

**Covid-19 and family businesses' resiliency: Does generation of management matter?**

Christopher John Cruz, Grand Valley State University [cruzch@gvsu.edu](mailto:cruzch@gvsu.edu)

Manuel Pulido-Velasquez, Universidad del Rosario

Sonia Dalmia, Grand Valley State University

**The Geography of Business Startups in the Post-COVID Economy**

Michael Hicks, Ball State University [mhicks@bsu.edu](mailto:mhicks@bsu.edu)

Emily Wornell, Ball State University [ejwornell@bsu.edu](mailto:ejwornell@bsu.edu)

Amanda Weinstein, University of Akron [aweinstein@uakron.edu](mailto:aweinstein@uakron.edu)

**Discussants:**

Amir Neto

Christopher John Cruz

Michael Hicks

Ali Enami

**Thursday, June 8, 2023**

3:45 p.m. – 5:15 p.m.

**Session 11: The Environment**

***Location: 215-G***

**Chair:** Elham Erfanian

**Drinking Water in Appalachia**

Elham Erfanian, Ohio University [erfanian@ohio.edu](mailto:erfanian@ohio.edu)

Dominic Gomez, Ohio University [dg245422@ohio.edu](mailto:dg245422@ohio.edu)

**Use Information from Input-Output Accounts to Build Semantic Models for Measuring Economic Contributions with Resource-Product Value Chains**

Gregory Alward, University of Idaho [greg.alward@alwardinstitute.org](mailto:greg.alward@alwardinstitute.org)

**A Problem with Distance Variables and Alternative Solutions**

Michael Farmer, Texas Tech University [michael.farmer@ttu.edu](mailto:michael.farmer@ttu.edu)

Kusum Naithani, University of Arkansas

Donald Lacombe, Texas Tech University

**Should Water Pollution Cleanup in the Ganges be Centralized or Decentralized?**

Amit Batabyal, Rochester Institute of Technology [aabgsh@rit.edu](mailto:aabgsh@rit.edu)

Hamid Beladi, University of Texas - San Antonio

**Discussants:**

Gregory Alward

Michael Farmer

Amit Batabyal

Elham Erfanian

**Friday, June 9, 2023**

7:45 a.m. – 8:45 a.m.

**Conference Buffet Breakfast**

**and**

**MCRSA Business Meeting**

***Location: 215-DE***

All conference attendees are invited to the conference breakfast buffet and MCRSA business meeting

- Exchange of the gavel

- State of the Association and business meeting

- *The* *Journal of Regional Analysis & Policy* update

**Friday, June 9, 2023**

9:00 a.m. – 10:30 a.m.

**Session 12: Housing**

***Location: 215-B***

**Session Chair:** Mark Skidmore

**A Regional Analysis of the Impacts of Changes in Housing Values on Property Tax Assessment During and After the 2008 Financial Crisis**

Yunni Deng, Fannie Mae

Mark Skidmore, Michigan State University [mskidmor@msu.edu](mailto:mskidmor@msu.edu)

**The Economics of College Student Housing and Meal Plans: Some Evidence from National Liberal Arts Colleges**

Joylynn Pruitt, West Virginia University

Joshua Hall, West Virginia University [joshua.hall@mail.wvu.edu](mailto:joshua.hall@mail.wvu.edu)

**311 Calls and Neighborhood Attributes -- A Panel Study of Housing Prices**

Sumei Zhang, University of Louisville [sumei.zhang@louisville.edu](mailto:sumei.zhang@louisville.edu)

Yanmei Li, Florida Atlantic University

**Discussants:**

Joshua Hall

Sumei Zhang

Mark Skidmore

**Friday, June 9, 2023**

9:00 a.m. – 10:30 a.m.

**Session 13: Workforce**

***Location: 215-C***

**Session Chair:** Emily Wornell

**Workforce Impacts and Regional Economic Development (WIRED) Model**

Andre Fernandes Tomon Avelino, National Renewable Energy Laboratory [Andre.FernandesTomonAvelino@nrel.gov](mailto:Andre.FernandesTomonAvelino@nrel.gov)

Yimin Zhang, National Renewable Energy Laboratory

Jon Becker, National Renewable Energy Laboratory

Alberto Franco Solis, National Renewable Energy Laboratory

**Non-standard work arrangements: Differentiating informal and gig work**

Emily Wornell, Ball State University [ejwornell@bsu.edu](mailto:ejwornell@bsu.edu)

Alison Winiarski, Ball State University

Ellen Whitehead, Ball State

Justin Schupp, Wheaton College

Karen McCormack, Wheaton College

**Middle-Pay Employment Decline across Ohio**

Tuyen Pham, Ohio University [tuyen.pham@ohio.edu](mailto:tuyen.pham@ohio.edu)

G. Jason Jolley, Ohio University

**Discussants:**

Emily Wornell

Tuyen Pham

Andre Fernandes Tomon Avelino

**Friday, June 9**

10:45 a.m. – 12:15 p.m.

***Location: 215-B***

**Session 14: Examining the Impacts of Covid Over Time**

The impacts of covid were widespread throughout the global economy and many of these impacts persist into the current day. In this session, IMPLAN Education Support Specialist Michael Nealy will be investigating how the effects of the 2020 COVID-19 pandemic are reflected in the IMPLAN Annual Data by showing changes in employment, output, and taxes at an Industry level from 2019-2021. We will also demonstrate how these changes to the US economy can affect economic impact analyses in IMPLAN Cloud.

Michael Nealy, IMPLAN [michael.nealy@implan.com](mailto:michael.nealy@implan.com)

12:15 p.m. - Adjourn

**Safe Travels!**