

# Helge-Johannes Marahrens

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## Professional Experience

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- 2023 - **Postdoctoral Fellow**, Massive Data Institute (MDI) and Institute for the Study of International Migration (ISIM), Georgetown University
- 2021 **Research Engineer Intern, Core Data Science**, Facebook (Meta) Inc.

## Education

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- 2023 **Ph.D. Sociology, Indiana University**; Qualifying Exam: Stratification & Culture  
Dissertation: “Global Networks and City Development, 1993-2020”  
Committee: Arthur S. Alderson (chair), Andrew-Halpern Manners, Michael Schultz, Carl Nordlund, Byungkyu Lee  
• *Runner-up: 2024 Distinguished Ph.D. Dissertation Award, Indiana University*
- 2019 **M.S. Applied Statistics**, Indiana University
- 2016 **M.A. Sociology**, University of Wisconsin, Milwaukee
- 2014 **B.A. Cultural Studies**, European University Viadrina (Germany)

## Research Interests

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Computational Social Science, Networks, Statistics, Globalization, Stratification, Migration

## Publications

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- Wycoff, Nathan, Lisa Singh, Ali Arab, Katharine Donato, and **Helge Marahrens** 2024. “The digital trail of Ukraine’s 2022 refugee exodus.” *Journal of Computational Social Science*, Jul 2024:1-47.
- Marahrens, Helge** and Arthur Alderson. *Forthcoming*. “The New Geography of Global Inequality and the Evolution of the World City System Since 1993.” *After Globalization – The Future of World Society*, edited by Patrick Ziltener and Christian Suter. Zurich: LIT.  
• *Winner of the World Society Foundation’s 2022 Award*
- Leffel, Ben, **Marahrens, Helge** and Arthur Alderson. 2022. “Divergence of the World City System from National Economies.” *Global Networks*, 23(2):459-477.
- Breznau, Nate, [et al. including **Helge Marahrens**] 2022. “Observing Many Researchers Using the Same Data and Hypothesis Reveals a Hidden Universe of Uncertainty.” *Proceedings of the National Academy of Sciences*, 119(44):e2203150119.
- Salganik, Matthew, [et al. including **Helge Marahrens**] 2020. “Measuring the predictability of life outcomes with a scientific mass collaboration.” *Proceedings of the National Academy of Sciences* 117(15):8398-8403.

Halpern-Manners, Andrew, **Helge Marahrens** et al. 2020. “The Intergenerational Transmission of Early Educational Advantages: New Results Based on an Adoption Design.” *Research in Social Stratification and Mobility*, 67:100486.

## **Papers Under Review**

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Brezna, Nate, [et al. including **Helge Marahrens**]. “The Reliability of Replications: A Study in Computational Reproductions.” *Royal Society Open Science*. *Accepted*.

**Marahrens, Helge** and Arthur Alderson. “Global Networks and City Development, 1993-2020.” *American Journal of Sociology*. *Revise & Resubmit*.

Leffel, Ben, David Smith and **Helge Marahrens**. “Derailed growth in world-city formation: Comparing Hong Kong and Shanghai.” *Journal of Urban Affairs*. *Revise & Resubmit*.

## **Work In Progress**

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Adem, Muna, **Helge Marahrens**, and Dina Okamoto. “Cooperation, Conflict, or Concurrence? Ethnoracial Organizations and Supreme Court Cases (1970-2021)”

**Marahrens, Helge** et al. “Understanding the Role of Emotion and Sentiment in Forced Migration.”

**Marahrens, Helge** et al. “A Global Test of Google Trends for Migration Prediction.”

Alderson, Arthur and **Helge Marahrens**. “Keeping up with the Joneses. How do Americans do Income Comparison?”

**Marahrens, Helge**. “Finance and Manufacturing Firms: Evidence for ‘Multiple Globalizations’”

Kavalerchik, Anne, Dina Okamoto, Hajar Yazdiha, **Helge Marahrens**, Saishree Godbole, and Da Eun Jung. “How Local News Media Frames Immigrant Collective Action in New Immigrant Destinations from 1990-2019.”

## **Fellowships & Awards**

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2024 **Runner-up: Distinguished Ph.D. Dissertation Award**, Indiana University

2022 **Grant-in-Aid of Doctoral Research Award** (\$1,000), Indiana University

2022 **Sociology Department: Advanced Departmental Fellowship** (\$10,000), Indiana University

2021 **Summer Affiliate Fellowship**, Complex Networks and Systems – National Science Foundation Research Traineeship (CNS-NRT) (\$5,000), Indiana University

2021 **Tobias Center Research Support Grant** (\$3,500), Indiana University

2020 **Summer Affiliate Fellowship**, Complex Networks and Systems – National Science Foundation Research Traineeship (CNS-NRT) (\$5,000), Indiana University

2017 **Clifford C. Clogg Scholarship** (\$2,600), Inter-university Consortium for Political and Social Research (ICPSR), University of Michigan

- 2014 **Chancellor's Graduate Student Award** (\$1,000), University of Wisconsin, Milwaukee  
2013 **PROMOS Stipend** (\$3,000), German Academic Exchange Service

## **Research Experience**

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**Assistant Editor**, *American Sociological Review*, Indiana University, 2020-21

**Associate Instructor**, Summer Research Practicum with Dr. Dina Okamoto, Indiana University, 2019-21, Responsibility for Sampling Design and Data Administration

### **Research Assistant**

Indiana University

Social Comparison & Happiness, Arthur S. Alderson, 2017-19

Big Data and Network Science, Weihua An, 2017

New York Times Web Scraping, Brian Powell, 2017

University of Wisconsin, Milwaukee

Water Poverty in American Cities, Oriol Miroso, 2016

Science and Technology Survey, Gordon Gauchat, 2015

## **Teaching Experience**

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**Associate Instructor**, Responsibility for Lab Section of Course

Indiana University

Statistical Techniques in Sociology II: Sociology S650

- Graduate Course with Professor Andrew-Halpern Manners (2023)

Statistical Techniques in Sociology I: Sociology S554

- Graduate Course with Professor Patricia McManus (2018, 2019) and Professor Michael Schultz (2022)

University of Wisconsin, Milwaukee

Introduction to Statistical Thinking in Sociology

**Associate Instructor**, Sole Responsibility for Course, Indiana University

Understanding Social Data (2018, Formerly: Charts, Graphs, and Tables)

### **Teaching Assistant**

University of Michigan, Inter-university Consortium for Political and Social Research (ICPSR) Summer Program

Data Science and Text Analysis (2020)

Indiana University

Introduction to Sociology (2016, 2017)

Deviance and Social Control (2017)

University of Wisconsin, Milwaukee

Introduction to Sociology (2014, 2015)

### **Instructor of Python Workshop**

Massive Data Institute (Georgetown University)

Advanced Models Using Text (2023)

Network Methods for an Interconnected World (2024)

Exploratory Data Analytics & Visual Analytics (2024)

Network Science Institute (Indiana University)

Introduction to Network Analysis in Python with network (2022)  
Workshop in Methods from the Social Science Research Commons (Indiana University)  
Introduction to Python for Social Scientists (2018-2020)  
Introduction to APIs for Social Scientists (2018-2020)  
Introduction to Text Mining for Social Scientists (2018-2020)

## **Graduate Level Statistics & Methods Courses**

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- 2019 Statistical Computing (Julia Fukuyama, Indiana University)  
Statistical Consulting (JangDong Seo, Indiana University)
- 2018 Introduction to Networks II (Stanley Wasserman, Indiana University)  
Applied Linear Models II (Arturo Valdivia, Indiana University)  
Exploratory Data Analysis (Brad Luen, Indiana University)
- 2017 Advanced Natural Language Processing (Damir Cavar, Indiana University)  
Applied Linear Models I (Arturo Valdivia, Indiana University)  
Measurement, Scaling, and Dimensional Analysis (William Jacoby, ICPSR)  
Multivariate Statistical Methods: Advanced Topics (Robert Henson, ICPSR)  
Longitudinal & Panel Data Analysis (Patricia McManus, Indiana University)
- 2016 Social Network Analysis (Weihua An, Indiana University)  
Categorical Data Analysis (Scott Long, Indiana University)  
Causal Inference in Social Research (John Roberts, UW-Milwaukee)
- 2015 Advanced Quantitative Analysis (Marcus Britton, UW-Milwaukee)  
Advanced Statistical Methods in Sociology (Gordon Gauchat, UW-Milwaukee)

## **Presentations**

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- 2023 “City Development During Globalization,” American Sociological Association Annual Meeting
- 2022 “Global Networks and City Development, 1993-2020,” American Sociological Association Annual Meeting
- 2022 “Spatial Dependencies in the World-City System, 1993-2020,” Midwest Sociological Society Annual Meeting
- 2022 “Industry Differences in the World-City System, 1993-2020,” Southern Sociological Society Annual Meeting
- 2022 “The Limits of Central Place Theory to Describe the World-City System,” North Central Sociological Association Annual Meeting
- 2022 “The New Geography of Global Inequality and the Evolution of the World City System”, World Society Foundation Online Conference
- 2021 “Global Networks and City Development, 1993-2020”, Tobias Center Research Symposium
- 2021 “Global Networks and City Development”, Computational Social Science Workshop, Meta Inc. (Formerly: Facebook Inc.)
- 2020 “Keeping Up With the Joneses: How Do Americans Do Income Comparison?” (with Art Alderson), American Sociological Association Annual Meeting
- 2020 “The Public Framing of Immigrant-Related Collective Action in New Immigrant Destinations” (with Dina Okamoto), American Sociological Association Annual Meeting
- 2019 “Income Comparison and Social Location in the United States” (with Art Alderson), American Sociological Association Annual Meeting

## **Academic Service**

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**President (2022) and Vice President (2021)** of the Machine Learning for Research Club at Indiana University

**Presider (2022)** Global and Transnational Roundtable: Networks, American Sociological Association Annual Meeting

**Organizer (2018-2020)** Public Sociology Forum

**Coordinator (2017)** Politics, Economics, and Culture Workshop, Indiana University

**Coordinator (2017)** Indiana Intensive Didactic Seminars (IIDS - Methods Workshop), Indiana University

**Presider (2016)** The Power of Perception: Identity and Presentation in New Media, Midwest Sociological Society (MSS) Annual Meeting

**Presider (2014)** Section on Political Economy of the World-System Roundtable Session, American Sociological Association Annual Meeting

## **Professional Memberships**

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American Statistical Association (since 2016)

American Sociological Association (since 2015)

Alpha Kappa Delta (since 2015)

Southern Sociological Society (2017-2019)

Midwest Sociological Society (2016-2017, 2022)

North Central Sociological Association (2019, 2022)

## References

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Distinguished Professor  
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Department of Sociology  
760 Ballantine Hall  
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