Helge-Johannes Marahrens

37th and O Streets, N.W. Massive Data Institute (Georgetown Univ.) Washington DC 20057 (813) 841-1570 <u>hm868@georgetown.edu</u> <u>www.helgemarahrens.com</u>

Professional Experience

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

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

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

Publications

- 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

- Marahrens, Helge and Arthur Alderson. "Global Networks and City Development, 1993-2020." American Journal of Sociology.
- Marahrens, Helge et al. "Understanding the Role of Emotion and Sentiment in Forced Migration." AAAI Conference on Artificial Intelligence 2025.
- Leffel, Ben, David Smith and **Helge Marahrens.** "Derailed growth in world-city formation: Comparing Hong Kong and Shanghai." *Journal of Urban Affairs.*
- Breznau, Nate, [et al. including **Helge Marahrens**]. "The Reliability of Replications: A Study in Computational Reproductions." *Nature Human Behavior*.

Work In Progress

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

- 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

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 Mirosa, 2016 Science and Technology Survey, Gordon Gauchat, 2015

Teaching Experience

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

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)

2015 Advanced Quantitative Analysis (Marcus Britton, UW-Milwaukee) Advanced Statistical Methods in Sociology (Gordon Gauchat, UW-Milwaukee)

Presentations

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

- 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

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

Arthur S. Alderson Distinguished Professor Department of Sociology 753 Ballantine Hall Indiana University Bloomington, IN 47405 <u>aralders@indiana.edu</u> 812-856-5883

Dina Okamoto Distinguished Professor Department of Sociology 760 Ballantine Hall Indiana University Bloomington, IN 47405 <u>dokamoto@indiana.edu</u> 812-855-2209 Lisa Singh Director of Massive Data Institute & Professor Department of Computer Science Saint Mary's Hall – Room 335 37th and O Streets, NW Washington DC 20057 <u>Lisa.Singh@georgetown.edu</u>

Katharine Donato Distinguished Professor Institute for the Study of International Migration Harris Building 3300 Whitehaven St, NW Washington DC 20007 kmd285@georgetown.edu