

Anne B. Kavalерchik

Dual-Ph.D. Candidate in Sociology and Informatics at Indiana University
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RESEARCH INTERESTS

Social networks, Science and technology, Complex systems, AI ethics, Computational social science

EDUCATION

- Ph.D.**, Sociology; **Ph.D.** Informatics (Complex Systems) Expected 2026
Indiana University, Bloomington
Dissertation Title: “The Coming Crisis of Medicine? Automated Diagnosis, Medical Knowledge, and Professional Power”
- M.A.** Sociology 2022
Indiana University, Bloomington
Thesis: “Narratives of Data-driven Policing”
- B.A.** Mathematics, *cum laude* 2016
Rutgers University, New Brunswick
Interdisciplinary Honors Thesis: “A Quantitative Look at How *The New York Times* Reports Sexual Assault”

PUBLICATIONS

Published

Anne Kavalерchik. “Data-drivenness, novelty, and interdisciplinarity in the study of criminology”. In Proceedings of ISSI 2023 - the 19th International Conference of the International Society for Scientometrics and Informetrics, 2:225-231. Zenodo, 2023. <https://doi.org/10.5281/zenodo.8370929>.

Under Review

Anne Kavalерchik. “Novelty and interdisciplinarity in criminology: How data-drivenness connects both”. *Accepted for Publication at Scientometrics*.

In Progress

Yazdiha, Hajar, **Anne Kavalерchik**, Dina Okamoto, Shruthi Senthilmani, Saishree Godbole, Da Eun Jung. “Public Framing of Immigrant Collective Action in News Media”. *Writing up results*.

Lee, Byungkyu, Koji Chavez **Anne Kavalерchik**, Eehyun Kim. “The evolution of research committees in sociology”. *Completing data analysis*.

Kavalерchik, Anne and Bernice Pescosolido. “Towards a Sociology of AI for Medical Diagnosis”.

PRESENTATIONS

Anne Kavalерchik. “The effect of AI on innovation in the case of medical diagnosis”. *International Conference on the Science of Science and Innovation (ICSSI)*.”

Anne Kavalерchik, Bernice Pesosolido. “Towards a sociology of automated diagnosis: AI and medical expertise”. *American Sociological Association Annual Meeting 2024*. Refereed Round table, Biomedicine and Health. Montreal, Quebec, Canada. *Could not attend in-person due to personal conflict*.

Eehyun Kim, **Anne Kavalерchik**, Byungkyu Lee, Koji Chavez. “The Great Recession and Its Aftermath: Rising Inequality in the Sociology Academic Job Market”. *American Sociological Association Annual Meeting 2024*. Session: Open Topics in Inequality, Poverty, and Mobility Section. Montreal, Quebec, Canada.

Anne Kavalерchik, Hajar Yazdiha, Dina Okamoto, Saishree Godbole, Da Eun Jung. “How Local News Media Frames Immigrant Collective Action in New Immigrant Destinations from 1990 — 2019”. *American Sociological Association Annual Meeting 2023*. Refereed Round Table, Community and Urban Sociology Section. Philadelphia, USA.

Anne Kavalерchik. “Interdisciplinarity, novelty, and data-drivenness in criminological research 1990 — 2017”. *19th International Conference of the International Society for Scientometrics and Informetrics 2023*. Panel on Bibliometrics. Bloomington, USA. 2023.

Anne Kavalерchik. “Automation and AI in Medical Diagnosis”. *19th International Conference of the International Society for Scientometrics and Informetrics 2023*. Doctoral Forum. Bloomington, USA.

Anne Kavalерchik. “The Narratives of Data-Driven Policing”. *American Sociological Association Annual Meeting 2021*. Refereed Round Table, Science, Knowledge, and Technology Section. Virtual Meeting.

INVITED TALKS AND WORKSHOPS

“Introduction to Supercomputing for Social Scientists at IU” <i>Social Science Research Center, Workshop in Methods</i>	Apr. 2024 Bloomington, USA
“Web Scraping and APIs for Social Scientists” <i>Social Science Research Center, Workshop in Methods</i>	Nov. 2023 Bloomington, USA
“Introduction to Python for Social Scientists” <i>Social Science Research Center, Workshop in Methods</i> Co-presenter with Eehyun Kim	Oct. 2023 Bloomington, USA
“Graduate work and the future of higher education” <i>University of Nebraska Humanities on the Edge</i>	Apr. 2023 Lincoln, USA
“Introduction to Supercomputing for Social Scientists at IU” <i>Social Science Research Center, Workshop in Methods</i>	Nov. 2021 Bloomington, USA
“Text mining in Python for Social Scientists” <i>Social Science Research Center, Workshop in Methods</i> Co-presenter with Helge Marahrens	Oct. 2020 Bloomington, USA
“Text mining in Python for Social Scientists” <i>Social Science Research Center, Workshop in Methods</i> Co-presenter with Helge Marahrens	Oct. 2020 Bloomington, USA
“Introduction to Python for Social Scientists” <i>Social Science Research Center, Workshop in Methods</i> Co-presenter with Helge Marahrens	Sep. 2020 Bloomington, USA

RESEARCH EXPERIENCE

Research Assistant <i>Public Ideas: Their Varieties and Careers</i> P.I.: Tim Hallett, Ph.D.	Aug. 2023 — Present
Coordinating Editor <i>American Sociological Review</i> P.I.s: Dina Okamoto, Ph.D.; Art Alderson, Ph.D.	Jan. 2023 — Aug. 2023
Research Assistant <i>Networks in Context Lab</i> P.I.: Byungkyu, Lee, Ph.D.	Aug. 2022 — Aug. 2023
Research Assistant <i>A Perfect Match? How Job Demands Shape Gender and Minority Differences in Hiring</i> P.I.s: Koji Chavez, Lee, Ph.D.; Kate Weisshaar, Ph.D.	Aug. 2020 — May 2021
Research Assistant <i>Public Framing of Immigrant Collective Action</i>	Oct. 2019 — Aug. 2020

P.I.: Dina Okamoto, Ph.D.

TEACHING EXPERIENCE

Indiana University

Associate Instructor , INFO-I 501: <i>Introduction to Informatics</i>	Aug. 2023 — Present
Associate Instructor , INFO-I 501: <i>Introduction to Informatics</i>	Aug. 2023 — Dec. 2023
Associate Instructor , INFO-I 501: <i>Introduction to Informatics</i>	Aug. 2022 — Dec. 2022
Graduate Assistant , SOC-S 110: <i>Understanding Social Data</i>	Jan. 2021 — May 2021
Graduate Assistant , SOC-S 110: <i>Understanding Social Data</i>	Aug. 2020 — Dec. 2020
Graduate Assistant , SOC-S 110: <i>Understanding Social Data</i>	Jan. 2020 — May 2020
Graduate Assistant , SOC-S 110: <i>Understanding Social Data</i>	Aug. 2019 — Dec. 2019

Testive, Inc.

Instructor , One-on-one tutoring on all SAT and ACT concepts.	Aug. 2017 — Aug. 2019
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Rutgers University

Recitation Teaching Assistant , Differential and Integral Calculus	Jan. 2015 — May 2016
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HONORS

Irsay Graduate Fellowship <i>The Irsay Institute at Indiana University</i> Semester award to support research that advances interdisciplinary research in the sociomedical sciences	2024-2025
Advanced Cyberinfrastructure (ACI) Student Fellowship <i>Indiana University Research Technologies Research Partnerships</i> Semester award to support graduate students using advanced cyberinfrastructure	2024
College of Arts and Sciences Graduate Fellowship <i>Indiana University</i> Year-long graduate research fellowship.	2021 - 2022
Complex Systems Summer Affiliate Fellowship <i>National Science Foundation</i> Summer fellowship for performing Complex Systems and Networks research with Indiana University Faculty.	2020
Schuessler Scholarship for Study at ICPSR <i>Indiana University Department of Sociology</i> Summer fellowship to study at the Inter-university Consortium for Political and Social Research.	2021
Social Action Award <i>Indiana University Department of Sociology</i> Awarded for commitment to social action and justice by Graduate Student Association.	2020
Trustee Award <i>Rutgers University</i> 4-year scholarship for full tuition and partial living expenses for undergraduate study.	2012 - 2016
School of Arts and Sciences Excellence Award <i>Rutgers University College of Arts and Sciences</i>	2013 - 2016

Phi Beta Kappa	2015
Sigma Delta Pi, National Spanish Honor Society	2015
Cap & Skull, Senior Honor Society	2015

PROFESSIONAL AFFILIATION AND DEVELOPMENT

Member , Science Genome Project	Aug. 2022 — Present	Indiana University
Member , Networks in Context Lab New York University	Aug. 2021 — Present	
Participant , Summer Institute in Computational Social Science Princeton University		2021
Member , American Sociological Association	Aug. 2019 — Present	

SERVICE

Peer reviewer for <i>Journal of Mathematical Sociology</i>		
Coordinating Officer, Department Organizer <i>Indiana Grad Workers Coalition</i>	2023 — 2024	Indiana University
Member, Organizing Committee <i>Preparing Future Faculty Conference</i> Round Table and Panel Moderator	2019 — Present	Indiana University
President <i>Sociology Graduate Student Association</i>	2022 — 2023	Indiana University
Communications Chair, Union Representative <i>Indiana Grad Workers Coalition</i>	2022 — 2023	Indiana University
Graduate Research Mentor <i>Research Experience for Undergraduates</i> ProHealth Lab	May 2022 — Aug. 2022	National Science Foundation
Indiana Grad Workers Coalition Representative <i>Sociology Graduate Student Association</i>	2021 — 2022	Indiana University
Graduate Affairs Committee Member <i>Sociology Graduate Student Association</i>	2020 — 2021	Indiana University
Organizer, Member <i>Indiana Grad Workers Coalition</i>	2020-2021	Indiana University
Mentor <i>MUSE: Mentorship for Underrepresented STEM Enthusiasts</i>	2019 — 2020	

SKILLS

- **Programming languages:** Python, R, Stata, Java
- **Software:** Snakemake, SLURM, Sublime, Jupyter, MS Excel
- **Databases:** PostgreSQL, MySQL
- **Methods:** Topic modeling, word embedding, network analysis, statistical modeling, machine learning
- **Languages:** English (Native), Russian (Native), Spanish (Advanced)

SELECTED COURSES

Graduate Coursework

- Network Science
- Social Network Analysis
- Social Networks
- Advanced Seminar in Complex Systems
- Seminar in Complex Systems

Undergraduate Coursework

- Graph Theory
- Introduction to Applied Mathematics
- Mathematical Theory of Probability
- Mathematical Theory of Statistics
- Data Structures