Anne B. Kavalerchik

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

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RESEARCH INTERESTS

Network science, science and technology studies, AI ethics, computational social science

EDUCATION

Ph.D. Sociology; **Ph.D.** Informatics (Complex Systems) (Dual-Degree)   Expected 2026
Indiana University, Bloomington
Dissertation Title: "The Coming Crisis of Medicine? AI, Automation, and Professional Power"
Committee: Drs. Bernice Pescosolido, Stasa Milojevic, Byungkyu Lee, Anna Mueller, Yong-Yeol Ahn

M.A. Sociology   2022
Indiana University, Bloomington
Thesis Title: "Narratives of Data-driven Policing"

B.A. Mathematics, *cum laude*   2016
Rutgers University, New Brunswick
School of Arts and Sciences Honors Program, Interdisciplinary Honors Thesis
Thesis Title: "A Quantitative Look at How *The New York Times* Reports Sexual Assault"
Minors: Sociology, Spanish

PUBLICATIONS

Published

Anne Kavalerchik. "Novelty and interdisciplinarity in criminology: How data-drivenness connects both". *Scientometrics* **130**, 665–678 (2025). http://doi.org/10.1007/s11192-024-05224-8

Anne Kavalerchik. "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 (2023). https://doi.org/10.5281/zenodo.8370929.

In Progress

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

Kim, Eehyun, **Anne Kavalerchik**, Lee, Byungkyu, Koji Chavez . "The effect of the Great Recession on the Sociology Job Market". *Completing data analysis.*

Kavalerchik, Anne, Eehyun Kim, Byungkyu Lee, Koji Chavez . "Faculty mobility and scholarly communities in sociology hiring 1981-2021". *Completing data analysis.*

Kavalerchik, Anne and Bernice Pescosolido. "Towards a Sociology of AI for Medical Diagnosis".

PRESENTATIONS

Accepted **Anne Kavalerchik**, Eehyun Kim, Byunkyu Lee, Koji Chavez. "The stability of academic prestige: Characterizing the sociology job market with stochastic block modeling". *Sunbelt 2025: International Network For Social Network Analysis.* June 23 - June 29, 2025, Paris, France.

Accepted **Anne Kavalerchik**. "AI in Medicine: Mapping 'Ethics', 'Efficiency', and 'Harm' in Scholarly Discourse (2010–2023)". *International Conference on the Science of Science and Innovation (ICSSI).* Lightening Talk. June 16 - 18, 2025, Copenhagen, Denmark.

Accepted **Anne Kavalerchik**. "Just another tool or something different? The (potential) AI revolution in medicine". *Irsay Research Symposium.* Poster. May 2, 2025, Bloomington, IN.

Accepted **Anne Kavalerchik**. "Just another tool or something different? The (potential) AI revolution in medicine". *Irsay Research Symposium.* Lightening Talk. May 2, 2025, Bloomington, IN.

Anne Kavalerchik. "The Locus of the AI Revolution: Path Dependence in Medical Technology". *CRA-WP Grad Cohort for Women & Grad Cohort for IDEALS.* Poster. April 3-5, 2025, Denver, CO.

Anne Kavalerchik. "The Coming Crisis of Medicine? AI and Automated Diagnosis". *Irsay Socio-Medical Institute Fellow Talks.* Poster. February 10, 2025, Bloomington, IN.

Anne Kavalerchik. "The effect of AI on innovation in the case of medical diagnosis". *International Conference on the Science of Science and Innovation (ICSSI).* Poster. July 1-4, 2024, Washington, D.C.

Anne Kavalerchik, Bernice Pesosolido. "Towards a sociology of automated diagnosis: AI and medical expertise". *American Sociological Association Annual Meeting 2024.* Refereed Round table, Biomedicine and Health. August 9-13, 2024, Montreal, Quebec. *Could not attend due to personal conflict.*

Eehyun Kim (Presenter), **Anne Kavalerchik**, 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. August 9-13, 2024, Montreal, Quebec. *Could not attend in-person due to personal conflict.*

Anne Kavalerchik, 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. August 17-21, 2023, Philadelphia, Pennsylvania.

Anne Kavalerchik. "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. July 2-5, 2023, Bloomington, IN.

Anne Kavalerchik. "Automation and AI in Medical Diagnosis". *19th International Conference of the International Society for Scientometrics and Informetrics 2023.* Doctoral Forum. Bloomington, USA. July 2-5, 2023, Bloomington, IN.

Anne Kavalerchik. "The Narratives of Data-Driven Policing". *American Sociological Association Annual Meeting 2021.* Refereed Round Table, Science, Knowledge, and Technology Section. August 6-10, 2021, Virtual Meeting due to COVID-19.

INVITED TALKS AND WORKSHOPS

"Collective bargaining in a right-to-work state: the Indiana Grad Workers Coalition". — Mar. 2024
ClassCon: A Conference on Class Consciousness and Popular Culture. — Bowling Green, OH

"Introduction to Supercomputing for Social Scientists at IU" — Apr. 2024
Social Science Research Center, Workshop in Methods — Bloomington, IN

"Web Scraping and APIs for Social Scientists" — Nov. 2023
Social Science Research Center, Workshop in Methods — Bloomington, IN

"Introduction to Python for Social Scientists" — Oct. 2023
Social Science Research Center, Workshop in Methods — Bloomington, IN
Co-presenter with Eehyun Kim

"Graduate work and the future of higher education" — Apr. 2023
University of Nebraska Humanities on the Edge — Lincoln, NE

"Introduction to Supercomputing for Social Scientists at IU" — Nov. 2021
Social Science Research Center, Workshop in Methods — Bloomington, IN

"Text mining in Python for Social Scientists" — Oct. 2020
Social Science Research Center, Workshop in Methods — Bloomington, IN

Co-presenter with Helge Marahrens

"Text mining in Python for Social Scientists" Oct. 2020
  Social Science Research Center, Workshop in Methods Bloomington, IN
  Co-presenter with Helge Marahrens

"Introduction to Python for Social Scientists" Sep. 2020
  Social Science Research Center, Workshop in Methods Bloomington, IN
  Co-presenter with Helge Marahrens

RESEARCH EXPERIENCE

Research Assistant Aug. 2023 — Aug. 2024
Public Ideas: Their Varieties and Careers
P.I.: Tim Hallett, Ph.D.

Coordinating Editor Jan. 2023 — Aug. 2023
American Sociological Review
P.I.s: Dina Okamoto, Ph.D.; Art Alderson, Ph.D.

Research Assistant Aug. 2022 — Aug. 2023
Networks in Context Lab
P.I.: Byungkyu, Lee, Ph.D.

Research Assistant Aug. 2020 — May 2021
A Perfect Match? How Job Demands Shape Gender and Minority Differences in Hiring
P.I.s: Koji Chavez, Lee, Ph.D.; Kate Weisshaar, Ph.D.

Research Assistant Oct. 2019 — Aug. 2020
Public Framing of Immigrant Collective Action
P.I.: Dina Okamoto, Ph.D.

TEACHING EXPERIENCE

Indiana University

Associate Instructor, INFO-I 501: *Introduction to Informatics* Aug. 2024 — Dec. 2024

Associate Instructor, INFO-I 501: *Introduction to Informatics* Aug. 2023 — Dec. 2023

Associate Instructor, INFO-I 501: *Introduction to Informatics* Aug. 2022 — Dec. 2022

Graduate Assistant, SOC-S 110: *Understanding Social Data* Jan. 2021 — May 2021

Graduate Assistant, SOC-S 110: *Understanding Social Data* Aug. 2020 — Dec. 2020

Graduate Assistant, SOC-S 110: *Understanding Social Data* Jan. 2020 — May 2020

Graduate Assistant, SOC-S 110: *Understanding Social Data* Aug. 2019 — Dec. 2019

Rutgers University

Recitation Teaching Assistant, Integral Calculus Jan. 2016 — May 2016

Recitation Teaching Assistant, Differential Calculus Sept. 2015 — Dec 2015

Recitation Teaching Assistant, Integral Calculus Jan. 2015 — May 2015

HONORS

CRA-WP Fellow 2025
Computing Research Association - Widening Participation
Participant and presenter at the CRA-WP Annual Meeting

Irsay Graduate Fellowship 2024-2025
The Irsay Institute at Indiana University
Semester award to support research that advances interdisciplinary research in the sociomedical sciences

Advanced Cyberinfrastructure (ACI) Student Fellowship 2024
Indiana University Research Technologies Research Partnerships
Semester award to support graduate students using advanced cyberinfrastructure

College of Arts and Sciences Graduate Fellowship 2021 - 2022
Indiana University
Year-long graduate research fellowship.

Complex Systems Summer Affiliate Fellowship 2020
National Science Foundation
Summer fellowship for performing Complex Systems and Networks research with Indiana University Faculty.

Schuessler Scholarship for Study at ICPSR 2021
Indiana University Department of Sociology
Summer fellowship to study at the Inter-university Consortium for Political and Social Research.

Social Action Award 2020
Indiana University Department of Sociology
Awarded for commitment to social action and justice by Graduate Student Association.

Trustee Award 2012 - 2016
Rutgers University
4-year scholarship for full tuition and partial living expenses for undergraduate study.

School of Arts and Sciences Excellence Award 2013 - 2016
Rutgers University College of Arts and Sciences

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 Aug. 2021 — Present
New York University

Participant, Summer Institute in Computational Social Science 2021
Princeton University

Member, American Sociological Association Aug. 2019 — Present

SERVICE

Peer reviewer for *Journal of Mathematical Sociology*

Sociology Graduate Peer Mentor Fall 2023 — Spring 2024

Sociology Graduate Student Association — Indiana University

Coordinating Officer — Fall 2023 — Spring 2024
Indiana Grad Workers Coalition - United Electrical Workers — Indiana University

Member, Organizing Committee — 2019 — Present
Preparing Future Faculty Conference — Indiana University
Round Table and Panel Moderator

President — Fall 2022 — Spring 2023
Sociology Graduate Student Association — Indiana University

Communications Chair — Fall 2022 — Spring 2023
Indiana Grad Workers Coalition - United Electrical Workers — Indiana University

Graduate Research Mentor — May 2022 — Aug. 2022
NSF Research Experience for Undergraduates — Indiana University
[ProHealth Lab]

Indiana Grad Workers Coalition Representative — Fall 2021 — Spring 2022
Sociology Graduate Student Association — Indiana University

Graduate Affairs Committee Member — Fall 2020 — Spring 2021
Sociology Graduate Student Association — Indiana University

Sociology Department Union Representative — Fall 2020 — Spring 2024
Indiana Grad Workers Coalition - United Electrical Workers — Indiana University

Informatics Department Union Representative — Fall 2020 — Spring 2024
Indiana Grad Workers Coalition - United Electrical Workers — Indiana University

Mentor — Fall 2019 — Spring 2020
[MUSE: Mentorship for Underrepresented STEM Enthusiasts]

TEST

Languages:	Python (`pandas`, `numpy`, `matplotlib`, `statsmodels`, `scikit-learn`, `networkx`)
	R (`igraph`, `statnet`, `data.table`, `ggplot2`)
	LaTeX — bash — PostgreSQL/MySQL — Stata — Java
Software:	SLURM (High performance computing) — Sublime — VSCODE
	Jupyter — MS Excel — Adobe Illustrator
Methods:	Topic modeling — Word embedding — Network analysis
	Statistical modeling — Machine learning

SELECTED COURSES

Graduate Coursework

- Advanced Research Methods
- Network Science
- Social Network Analysis
- Social Networks (Theory)
- Advanced Seminar in Complex Systems
- Seminar in Complex Systems
- Statistical Techniques in Sociology
- Categorical Data Analysis
- Quantitative Methods in Sociology

Undergraduate Coursework

- Graph Theory
- Introduction to Applied Mathematics
- Mathematical Theory of Probability
- Mathematical Theory of Statistics
- Introduction to Computer Science
- Data Structures
- Social Research Methods
- Sociology of Deviant Behavior

MEDIA

"The Role of Graduate Student Unions in Higher Education Class Struggles". *BG Ideas Podcast.* 2025.
The War in the Mideast Fuels a Crisis in the Midwest. *Chronicle of Higher Education.* 2024.
Multifaith group rallies at Dunn Meadow. *Indiana Public Media.* 2024.
How a Small Left-Wing Union Is Helping Drive the Unionization Wave in Higher Ed. *Jacobin.* 2023.
New UE Local 1103 Was 16 Years in the Making. *UE News.* 2022.
'Fascinating tension' leads to winning national award. *Luddy School of Informatics, Computing, and Engineering News.* 2023.
Indiana Grad Workers Vote 'No' on Strike Authorization. *WFHB – Bloomington Community Radio.* 2022.
The Campus Workers Withdrawing Their Consent . 2022.
Indiana University Graduate Students Continue Efforts To Unionize. *Indiana Public Media.* 2021.
Rutgers Climbing Team Boosts Confidence. *Rutgers Today.* 2016.
Rutgers Rock Wall hangs in balance. *The Daily Targum.* 2015.

SELECTED NON-ACADEMIC EMPLOYMENT AND HONORS

Consultant, Technology Forecasting for Future Today Institute	Summer 2024
Project Staff Organizer at the United Electrical Workers	Spring 2023
Volunteer Rock Climbing Coach, St. Benedict's Preparatory	2023
Coach and Competitive Programs Manager, Denver Bouldering Club	2018 — 2019
Route Setter, Denver Bouldering Club	2018 — 2019
SAT/ACT Coach at Testive, Inc.	2017 — 2019
US Climbing Team Member, World University Championships, Shanghai, China	2016
6th Place, US National Championships Sport Climbing, San Diego, CA	2016
3rd Place, US National Championships Sport Climbing, San Diego, CA	2015
President and Founder, Rutgers Climbing Team	2012—2016