Anne B. Kavalerchik

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

✉ akavaler@iu.edu — ⌂ annekavalerchik.com — in anne-kavalerchik — ⊘ anne-kav

RESEARCH INTERESTS

Computational social science, complex systems and networks, medical sociology, science and technology studies, AI

EDUCATION

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

M.A. Sociology   2022
Indiana University, Bloomington
Thesis Title: "Quantifying the narratives of 'data-driven policing'"
Committee: Drs. Dina Okamoto, Michael Schultz

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"
Committee: Drs. Paul McLean (Sociology), Matthew Stone (Computer Science)
Minors: Sociology, Spanish

PUBLICATIONS

Peer Reviewed

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**. "Does artificial intelligence disrupt or does it accelerate? Path dependency in medical innovation". *American Sociological Association Annual Meeting 2025.* Technology Regular Session: Emerging Technologies. August 8 - 12, 2025, Chicago, IL.

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.

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.

Anne Kavalerchik. "Just another tool or something different? The (potential) AI revolution in medicine". *Irsay Research Symposium.* Lightening talk & Poster. 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.

HONORS AND AWARDS

Schuessler Award for Graduate Research 2025
Indiana University Department of Sociology
$2000 award to celebrate excellence in a piece of written work by current graduate student.

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-long fellowship 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.

CNS-NSF Research Trainee Fellowship 2021 - 2022
Complex Networks and Systems National Science Foundation Research Traineeship
Two-year interdisciplinary fellowship to complete research and training in complex systems.

Complex Systems Summer Affiliate Fellowship 2020
National Science Foundation
Summer award for Complex Systems and Networks research.

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

PRESENTED WORKSHOPS

"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
Co-presenter with Eehyun Kim

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

"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

INVITED TALKS

"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

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

RESEARCH EXPERIENCE

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

Coordinating and Assistant 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.

Research Intern May 2015 — Aug. 2015
Oak Ridge National Laboratory, Oak Ridge, TN
Researched machine learning applications for cybersecurity

Mathematics-Statistics Trainee June 2014 — Aug. 2014
Bureau of Labor Statistics, Center for Fatal and Occupational Injuries, Washington, D.C.
Compiled and refined data for the release of 2013 Census for Fatal Occupational Injuries.

Research Assistant Sep. 2013 — Apr. 2014
Aresty Undergraduate Research Program, Rutgers University, New Brunswick, NJ
Studied the sociological and legal implications of the Balkan Wars.

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

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
Science and Technology Section, Medical Sociology Section

Member, Association for Computing Machinery   2025 — 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

SKILLS

Languages: English, Russian (Native), Spanish

Programming 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: Statistical modeling — Machine learning — Network analysis
Word embedding — Topic modeling

SELECTED MEDIA

"Living the Slop Life". *The New York Times.* 2025.
"Hundreds protest as Trump admin revokes Indiana University student visas". *Herald-Times.* 2025.
"ACI Fellowship student research 2024". Indiana University IT News & Events. 2024.
"The Fight for Free Speech at Dunn Meadow". *WFHB - Bloomington Community Radio.* 2024.
"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.
"'More Say, More Pay': IU grad workers begin living wage campaign". *WFYI Indianapolis.* 2023.
"How grad workers can stop department funding cuts". Guest column at *Indiana Daily Student.* 2023.
"How a Small Left-Wing Union Is Helping Drive the Unionization Wave in Higher Ed". *Jacobin.* 2023.
"'Fascinating tension' leads to winning national award". *IU Luddy News.* 2023.
"New UE Local 1103 Was 16 Years in the Making". *UE News.* 2022.
"Grad Workers Vote 'No' on Strike Authorization". *WFHB – Bloomington Community Radio.* 2022.
"The Campus Workers Withdrawing Their Consent". *In These Times.* 2022.
"IU Graduate Workers Begin Voting To Authorize Strike". *WFYI Indianapolis.* 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 ACHIEVEMENTS

Consultant, Technology Forecasting for Future Today Institute	2024
Project Staff Organizer at United Electrical, Radio, & Machine Workers of America	2023
Volunteer Coach, St. Benedict's Preparatory After School Rock Climbing Club	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
Board member, USA Climbing Collegiate Committee, Athlete Representative	2015 — 2019
3rd Place, US National Championships Sport Climbing, San Diego, CA	2015
President and Founder, Rutgers Climbing Team	2013 — 2016