

# Anne B. Kavalерchik, Ph.D.

Sociologist and informaticist

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## ACADEMIC APPOINTMENTS

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### Postdoctoral Research Associate

March 2026 — Present

Center for Complex Networks Research (P.I.: Albert-László Barabási, Ph.D.)

Network Science Institute

Northeastern University

## EDUCATION

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### Ph.D. Sociology; Ph.D. Informatics (Complex Systems) (Dual-Degree)

May 2026

Indiana University, Bloomington

Complex Networks and Systems NSF Research Fellow

Dissertation Title: “The Coming Crisis of Medicine? AI, Innovation, and Medical Authority”

Committee: Bernice Pescosolido (co-chair), Staša Milojević (co-chair),

Byungkyu Lee, Anna Mueller, Yong-Yeol Ahn

### M.A. Sociology

2022

Indiana University, Bloomington

Thesis Title: “Quantifying the narratives of ‘data-driven policing’”

Committee: 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: Paul McLean (Sociology), Matthew Stone (Computer Science)

Minors: Sociology, Spanish

## PUBLICATIONS

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### Peer Reviewed

**Anne Kavalерchik.** “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 Kavalерchik.** “Data-drivenness, novelty, and interdisciplinarity in the study of criminology”. In *Proceedings of ISSI 2023 - the 19<sup>th</sup> 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 Kavalерchik**, Helge Marahrens. “Comparative Racial Frames: How News Media Frame Asian, Latino, and Muslim Immigrants from 1990—2019”. *Under review*.

Kim, Eehyun, **Anne Kavalерchik**, Lee, Byungkyu, Koji Chavez . “The effect of the Great Recession on the Sociology Job Market”. *Writing up results*.

**Kavalерchik, Anne**, Eehyun Kim, Byungkyu Lee, Koji Chavez . “The ‘Academic Caste System’ Revisited: Modeling Cultural Closure and Prestige Hierarchy in PhD Exchange Networks With

Temporal Exponential Random Graph Models, 1980-2020". *Completing data analysis*.

**Kavalerchik, Anne** and Bernice Pescosolido. "The (potential) AI revolution in medicine: Reinforcing Tool or Existential Threat to Professional Dominance?". *Preparing for submission*.

**Kavalerchik, Anne** and Bernice Pescosolido. "The Decline of Public Confidence in Scientific and Medical Institutions: Evidence from the General Social Survey". *Data analysis*.

## PRESENTATIONS

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(Presenter unless noted otherwise.)

**Anne Kavalerchik**. "Medical Authority in the Age of AI: How Experts Define and Defend the Boundaries of Doctoring". *American Sociological Eastern Sociological Association 2026*. March 5-8, 2026. Washington, D.C.

**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)*. Lightning Talk. June 16 - 18, 2025, Copenhagen, Denmark.

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

**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”. *19<sup>th</sup> 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

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<b>Schuessler Award for Graduate Research</b>	2025
<i>Indiana University Department of Sociology</i>	
\$2000 award to celebrate excellence in a piece of written work by current graduate student.	
<b>CRA-WP Fellow</b>	2025
<i>Computing Research Association - Widening Participation</i>	
Participant and presenter at the CRA-WP Annual Meeting.	
<b>Irsay Graduate Fellowship</b>	2024—2025
<i>The Irsay Institute at Indiana University</i>	
Semester-long fellowship to support work that advances interdisciplinary research in the sociomedical sciences.	
<b>Advanced Cyberinfrastructure (ACI) Student Fellowship</b>	2024
<i>Indiana University Research Technologies Research Partnerships</i>	
Semester award to support graduate students using advanced cyberinfrastructure.	
<b>CNS-NSF Research Trainee Fellowship</b>	2020 - 2022
<i>Complex Networks and Systems National Science Foundation Research Traineeship</i>	
Two-year interdisciplinary fellowship to complete research and training in complex systems.	
<b>Complex Systems Summer Affiliate Fellowship</b>	2020
<i>National Science Foundation</i>	
Summer award for Complex Systems and Networks research.	
<b>Schuessler Scholarship for Study at ICPSR</b>	2021
<i>Indiana University Department of Sociology</i>	
Summer fellowship to study at the Inter-university Consortium for Political and Social Research.	
<b>Social Action Award</b>	2020
<i>Indiana University Department of Sociology</i>	
Awarded for commitment to social action and justice by Graduate Student Association.	
<b>Trustee Award</b>	2012 - 2016
<i>Rutgers University</i>	
4-year scholarship for full tuition and partial living expenses for undergraduate study.	
<b>School of Arts and Sciences Excellence Award</b>	2013 - 2016
<i>Rutgers University College of Arts and Sciences</i>	
<b>Phi Beta Kappa</b>	2015
<b>Sigma Delta Pi (National Spanish Honor Society)</b>	2015
<b>Cap &amp; Skull Senior Honor Society</b>	2015

## PRESENTED WORKSHOPS

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“ <a href="#">Introduction to Supercomputing for Social Scientists at IU</a> ” <i>Social Science Research Center, Workshop in Methods</i>	Apr. 2024 Bloomington, IN
“ <a href="#">Web Scraping and APIs for Social Scientists</a> ” <i>Social Science Research Center, Workshop in Methods</i> Co-presenter with Eehyun Kim	Nov. 2023 Bloomington, IN
“ <a href="#">Introduction to Python for Social Scientists</a> ” <i>Social Science Research Center, Workshop in Methods</i> Co-presenter with Eehyun Kim	Oct. 2023 Bloomington, IN
“ <a href="#">Introduction to Supercomputing for Social Scientists at IU</a> ” <i>Social Science Research Center, Workshop in Methods</i>	Nov. 2021 Bloomington, IN
“ <a href="#">Text mining in Python for Social Scientists</a> ” <i>Social Science Research Center, Workshop in Methods</i> Co-presenter with Helge Marahrens	Oct. 2020 Bloomington, IN
“ <a href="#">Text mining in Python for Social Scientists</a> ” <i>Social Science Research Center, Workshop in Methods</i> Co-presenter with Helge Marahrens	Oct. 2020 Bloomington, IN
“ <a href="#">Introduction to Python for Social Scientists</a> ” <i>Social Science Research Center, Workshop in Methods</i> Co-presenter with Helge Marahrens	Sep. 2020 Bloomington, IN

## INVITED TALKS

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“Collective bargaining in a right-to-work state: The Indiana Grad Workers Coalition”. <i>ClassCon: A Conference on Class Consciousness and Popular Culture.</i>	Mar. 2024 Bowling Green, OH
“Graduate work and the future of higher education” <i>University of Nebraska Humanities on the Edge</i>	Apr. 2023 Lincoln, NE

## RESEARCH EXPERIENCE

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<b>Research Assistant</b> (P.I.: Tim Hallett) <i>Public Ideas: Their Varieties and Careers</i>	Aug. 2023 — Aug. 2024
<b>Coordinating and Assistant Editor</b> (P.I.s: Dina Okamoto, Art Alderson) <i>American Sociological Review</i>	Jan. 2023 — Aug. 2023
<b>Research Assistant</b> (P.I. Byungkyu Lee) <i>Networks in Context Lab</i>	Aug. 2022 — Aug. 2023
<b>Research Assistant</b> (P.I.s: Koji Chavez, Kate Weisshaar) <i>A Perfect Match? How Job Demands Shape Gender and Minority Differences in Hiring</i>	Aug. 2020 — May 2021
<b>Research Assistant</b> (P.I.: Dina Okamoto) <i>Public Framing of Immigrant Collective Action</i>	Oct. 2019 — Aug. 2020
<b>Research Intern</b>	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 gender-based violence in war.

## TEACHING EXPERIENCE

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### Indiana University

**Associate Instructor**, INFO-I 501: *Introduction to Informatics* Aug. 2024 — Dec. 2024  
**Associate Instructor**, INFO-I 501: *Sociological Research Practicum* Jan. 2024 — Jul. 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

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Science Genome Project (Indiana University) 2022 — 2025  
 Networks in Context Lab (New York University) 2021 — Present  
 Summer Institute in Computational Social Science (Princeton University) 2021  
 American Sociological Association (ASA) 2019 — Present  
 Sections: Science, Knowledge, and Technology; Medical Sociology;  
 Mathematical Sociology  
 Association for Computing Machinery (ACM) 2025 — Present  
 Sunbelt International Network for Social Network Analysis (INSNA) 2024 — Present  
 Society for the Science of Science and Innovation (SSSI) 2024 — Present  
 International Society for Scientometrics and Informetrics (ISSI) 2022 — 2024

## SERVICE

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**Peer reviewer** for *Journal of Mathematical Sociology*, *Journal of Health and Social Behavior*  
**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 — 2024

<i>Preparing Future Faculty Conference</i> Round Table and Panel Moderator	Indiana University
<b>President</b> <i>Sociology Graduate Student Association</i>	Fall 2022 — Spring 2023 Indiana University
<b>Communications Chair</b> <i>Indiana Grad Workers Coalition - United Electrical Workers</i>	Fall 2022 — Spring 2023 Indiana University
<b>Graduate Research Mentor</b> <i>NSF Research Experience for Undergraduates</i> <a href="#">ProHealth Lab</a>	May 2022 — Aug. 2022 Indiana University
<b>Indiana Grad Workers Coalition Representative</b> <i>Sociology Graduate Student Association</i>	Fall 2021 — Spring 2022 Indiana University
<b>Graduate Affairs Committee Member</b> <i>Sociology Graduate Student Association</i>	Fall 2020 — Spring 2021 Indiana University
<b>Sociology Department Union Representative</b> <i>Indiana Grad Workers Coalition - United Electrical Workers</i>	Fall 2020 — Spring 2024 Indiana University
<b>Informatics Department Union Representative</b> <i>Indiana Grad Workers Coalition - United Electrical Workers</i>	Fall 2020 — Spring 2024 Indiana University
<b>Mentor</b> <i>MUSE: Mentorship for Underrepresented STEM Enthusiasts</i>	Fall 2019 — Spring 2020

## SKILLS

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<b>Languages:</b>	English (fluent, native), Russian (fluent, native), Spanish (fluent)
<b>Programming languages:</b>	Python (pandas, numpy, matplotlib, statsmodels, scikit-learn, networkx) R (igraph, statnet, data.table, ggplot2) L <sup>A</sup> T <sub>E</sub> X — bash — PostgreSQL/MySQL — Stata — Java
<b>Software:</b>	SLURM (High performance computing) — Sublime — VSCode Jupyter — Adobe Illustrator
<b>Methods:</b>	Statistical modeling — Machine learning — Network analysis Word embedding — Topic modeling

## SELECTED NON-ACADEMIC EMPLOYMENT/ACHIEVEMENTS

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Consultant, Technology Forecasting for Future Today Institute See: <a href="#">“The Era of Living Intelligence: Navigating the technology supercycle powering the next wave of innovation.”</a>	2024
Project Staff Organizer at United Electrical, Radio, & Machine Workers of America	2023
Volunteer Coach, <a href="#">St. Benedict’s Preparatory After School Rock Climbing Club</a>	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, <a href="#">World University Championships</a> , Shanghai, China	2016
Board member, <a href="#">USA Climbing</a> Collegiate Committee, Athlete Representative	2015 — 2019
3rd Place, US National Championships Sport Climbing, San Diego, CA	2015

**SELECTED MEDIA**

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- “Living the Slop Life”. *The New York Times*. 2025.
- “Hundreds protest as Trump admin revokes Indiana University student visas”. *Herald-Times*. 2025.
- “Inaugural Advanced Cyberinfrastructure Fellows”. 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.