

Samantha Dies

Contact Information

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Research Interests

Network science, machine learning, computational social science, large language models, AI ethics, complex systems

Education

Northeastern University (2022–Present)

- Ph.D. in Computer Science (expected 2027)
- M.S. in Computer Science (2026)
- Post-Secondary Teaching Certificate (2025)

Khoury College of Computer Sciences

Advisor: Tina Eliassi-Rad

Georgetown University (2022)

- B.S. in Computer Science and Mathematics, Minor in Spanish
summa cum laude

Thesis: Transparency Modeling: Understanding the Ethical Norms in Computer Science Research that uses Social Media Data [\[pdf\]](#)

Undergraduate Advisor: Professor Lisa Singh

Publications

Samantha Dies, Courtney Maynard, Germans Savcicens, and Tina Eliassi-Rad. Epistemic Familiarity is Associated With Belief Stability in Large Language Models. *Findings of the Association for Computational Linguistics: EMNLP 2026*, forthcoming. [\[pdf\]](#)

Moritz Laber*, **Samantha Dies***, Joseph Ehler*, Brennan Klein, and Tina Eliassi-Rad. Effects of higher-order interactions and homophily on information access inequality. *Communications Physics* (2026). [\[pdf\]](#)

Samantha Dies, David Liu, and Tina Eliassi-Rad. Forecasting Faculty Placement from Patterns in Co-authorship Networks. *EPJ Data Science* (2026). [\[pdf\]](#)

Preprints

Germans Savcicens, **Samantha Dies**, Courtney Maynard, and Tina Eliassi-Rad. Belief Coevolution in a Social Network of Generalist and Specialist Large Language Models. [\[pdf\]](#)

Olumide Adisa, Enio Alterman Blay, Yasaman Asgari, Gabriele Di Bona, **Samantha Dies**, Ana Maria Jaramillo, Paulo H. Resende, and Ana Maria de Sousa Leitao. The Overlooked Need for Ethics in Complexity Science: Why it Matters. (2024) [\[pdf\]](#)

Presentations

Invited Talks and Seminars

- 2026 Vermont Complex Systems Institute. *Characterizing Belief Stability in Large Language Models*. Burlington, VT.
- 2026 AI + Data Ethics Summer Program, Northeastern University Ethics Institute. *Toward a Graded Measure of Belief Stability in Large Language Models*. Boston, MA.
- 2026 TENET: Satellite on Temporal Networks, NetSci '26. *Forecasting Faculty Placement from Temporal Coauthorship Networks*. Boston, MA

Refereed Conference Talks

- 2025 NetSci '25. *Higher-Order Network Effects on Information Access Equality & Efficiency*. Maastricht, the Netherlands.
- 2023 CCS '23. *Unraveling the Impact of Co-authorship on Faculty Placement*. Bahia, Brazil.
- 2022 ACM CAPWIC. *Quantifying and Measuring Transparency in Computer Science Research*. Online.
- 2021 ACM CAPWIC. *Social Media as a Driver for Social Change: Analyzing the #MeToo and #BlackLivesMatter Movements on Twitter*. Online.

Poster Presentations

- 2026 NEMI '26. *Epistemic Familiarity is Associated with Belief Stability in Large Language Models*. Boston, MA.
- 2025 IC2S2 '25. *Forecasting Faculty Placement from Patterns in Co-authorship Networks*. Norrköping, Sweden.
- 2024 GraphEx '24. *Higher-Order Network Effects on Information Access Efficiency and Equality*. Boston, MA.

Teaching Experience

Northeastern University

Instructor of Record

- DS 4420: Advanced Machine Learning (Spring 2027)

Teaching Assistant

- NETS / CS 7332: Machine Learning with Graphs (Fall 2025, Fall 2026)

The Santa Fe Institute

Project Coordinator

- Complex Systems Summer School (Summer 2025)
Supervisor: Dave Feldman

Georgetown University

Teaching Assistant

- Math 140: Introduction to Statistics (Fall 2020, Spring 2021, Fall 2021, Spring 2022)
- CS 160: Data Structures (Spring 2021, Fall 2021)
- CS 051-052: Introduction to Computer Science I and II (Spring 2020, Fall 2020)
- Math 137: Multivariable Calculus (Fall 2019)

Awards and Honors

- 2022 Khoury Fellowship, Northeastern University
- 2022 Award for Academic Excellence in Computer Science, Georgetown University
- 2022 *Pi Sigma Mu*
- 2022 *Sigma Xi* Nomination
- 2021 *Phi Beta Kappa*
- 2021 ACM CAPWIC Best Flashtalk Runner-Up

Service

Conference Organization

- Satellite Organizer, *Ethics in Network Science Research and Practice*, NetSci '26 (2026).

Peer Review

Journals: Applied Network Science (2026)

Conferences: NetSci (2026); ICWSM (2024)

Departmental Service

- Ph.D. Open House Volunteer, Khoury College of Computer Sciences, Northeastern University (2023, 2025, 2026)
- Ph.D. Application Reviewer, Khoury College of Computer Sciences, Northeastern University (2023)

Professional Experience

Pitney Bowes - Data Science Intern Summer 2020, 2021
Supervisor: David Messineo

Schools and Workshops

2024 The Santa Fe Institute Complex Systems Summer School