Lindsay Popowski

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Research Interests

social computing, human-computer interaction, digital identity, online communities, human-centered AI, content moderation, platform design for wellbeing.

Education

2021-present GPA 4.00	**Stanford University**, *Ph.D. in Computer Science*, Palo Alto, CA. Human-Computer Interaction Group ○ Advised by Professor Michael Bernstein
2017–2021 GPA 3.99	**Harvey Mudd College**, *B.Sc. in Computer Science and Mathematics*, Claremont, CA. ○ Graduated with High Distinction ○ Departmental Honors in Computer Science; Humanities, Social Sciences, and Arts ○ Clinic (team capstone) award for "Generating Explanations for Random Forest Decisions"

Awards & Honors

2022	**Stanford University**, *EDGE Doctoral Fellowship*.
2021	**Computing Research Association**, *Outstanding Undergraduate Research Award*. One of four awardees nation-wide
2021	**ACM CHI**, *Best Paper Honorable Mention award*. Screen2Vec: Semantic Embedding of GUI Screens and GUI Components
2021	**Harvey Mudd College**, *Class of '94 Award*. One of three awardees in the Computer Science department recognized for excellence in research and academics
2021	**Harvey Mudd College**, *Clinic Team Award*. Three Clinic teams recognized for excellent final reports and client deliverables

Publications

The titles of papers currently under review are edited to maintain authors' anonymity.

In submission 2022	**[On Social Computing Prototyping and LLMs]**, Joon Sung Park, **Lindsay Popowski**, Carrie J. Cai, Meredith Ringel Morris, Percy Liang, Michael S. Bernstein.
CHI 2021	**Screen2Vec: Semantic Embedding of GUI Screens and GUI Components**, Toby Jia-Jun Li*, **Lindsay Popowski***, Tom M. Mitchell, and Brad A. Myers, *CHI Conference on Human Factors in Computing Systems.* Best Paper Honorable Mention award (awarded to top 5%).
SIGCSE 2021	**A Biology-based CS1: Results and Reflections, Ten Years In**, Zachary Dodds, Malia Morgan, **Lindsay Popowski**, Henry Coxe, Caroline Coxe, Kewei Zhou, Eliot Bush, and Ran Libeskind-Hadas, *ACM Technical Symposium on Computer Science Education.*

AIJ 289 (2020)	**Quantifying controllability in temporal networks with uncertainty**, Shyan Akmal, Savana Ammons, Hemeng Li, Michael Gao, **Lindsay Popowski**, and James C. Boerkoel Jr, *Journal of Artificial Intelligence*.
AAAI 2020	**Dynamic control of probabilistic simple temporal networks**, Michael Gao*, **Lindsay Popowski***, and Jim Boerkoel, *AAAI Conference on Artificial Intelligence*.

Research Experience

2021-present	**Stanford University**, *Rotations with Michael Bernstein*, Angèle Christin**, Jeff Hancock***.* ○ Fall* (with Joon Sung Park): Using large language models to power a prototyping tool for online communities and other social computing systems. ○ Winter**: Ethnography of Instagram fashion and lifestyle influencers focused on authenticity, audience mediation, platform conflict, and self-representation. ○ Spring***: Study of mental health misinformation on TikTok and the use of "Stitch" video responses for correction and call-out.
Summer/Fall 2020	**Carnegie Mellon University**, *with Toby Jia-Jun Li and Brad A. Myers.* Designed and coded four self-supervised models for embedding app GUI components and screens, developed evaluation frameworks for each, and performed the evaluations
Summer/Fall 2019	**Harvey Mudd College**, *with James C. Boerkoel Jr.* Developed two new algorithms to dynamically schedule multi-agent teams, and implemented/tested one along with a baseline
Summer 2018	**Harvey Mudd College**, *with Zachary Dodds.* Helped revise intro CS course (writing homework problems, organization), and developed tools for professors in other disciplines (lab data analysis Python workflows and instructions for physics faculty, NLP pipeline for professor in government)

Service

2022-present	**Stanford CS PhD Admit Weekend Co-chair**.
2022-present	**Stanford CS PhD Breadth Requirement Committee**.
2021	**Stanford CS PhD Student-Applicant Support Program (SASP) Reviewer**.
2020	**AAAI Student Volunteer**.

Skills

Technologies	Proficient in Python, Java, C++, Git Familiar with pytorch, scikit-learn, R, jupyter notebook, haskell
Languages	English (native), Spanish (advanced, 6 years)