

Stephanie T. Wang

PhD Student, Computer and Information Science
University of Pennsylvania

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Education

- 2023 – Present **University of Pennsylvania**, Philadelphia, PA
PhD in Computer Science, Human-Computer Interaction group
Advisor: Danaë Metaxa.
Selected coursework: Human-Computer Interaction (CS 512), Critical Perspectives on Online Trust and Safety (COMM 501), Contemporary Sociological Theory (SOC 601)
- 2017 – 2019 **Stanford University**, Stanford, CA
MS in Computer Science, Artificial Intelligence track
Selected coursework: Artificial Intelligence (CS 221), Machine Learning (CS 229), Mining Massive Datasets (CS 246), Natural Language Understanding (CS 224U)
- 2013 – 2017 **Stanford University**, Stanford, CA
BS in Symbolic Systems, Artificial Intelligence track

Honors and awards

- 2024 Amazon Web Services (AWS) AI ASSET Fellow
Awarded \$70,000 in support of one year of graduate study.
- 2023 Manjushri Fellow (Penn Engineering)
Awarded \$3,000 to select number of incoming PhD students.

Publications

- [3] Auditing Race and Gender Discrimination in Food and Well-being Digital Advertisements
Stephanie Wang, Renee Wurth, Lena Armstrong, Danaë Metaxa.
In preparation.
- [2] Lower Quantity, Higher Quality: Auditing News Content and User Perceptions on Twitter/X's Algorithmic versus Chronological Timelines
Stephanie Wang[†], Shengchun Huang[†], Alvin Zhou and Danaë Metaxa.
Proceedings of The ACM Conference on Computer-Supported Cooperative Work and Social Computing (CSCW'24).
- [1] Training Classifiers with Natural Language Explanations
Braden Hancock, Paroma Varma, **Stephanie Wang**, Martin Bringmann, Percy Liang, and Chris Ré.
Proceedings of Association for Computational Linguistics (ACL'18).

Research experience

- 2023 – Present **University of Pennsylvania**
Research Assistant
Mentors: Professor Danaë Metaxa.
Working on software that enables data collection for large-scale sociotechnical audits of social computing systems such as ad delivery and newsfeed recommendations.
- 2018 – 2019 **Stanford University**
Research Assistant
Mentors: Professor Chris Ré.
Worked on natural language interfaces for creating machine learning datasets. Contributed to projects on improving machine learning/ data science workflows that are now part of snorkel.ai.
- 2015 **Stanford University**
Research Assistant
Mentors: Professor James Landay.
Worked on the Smart Primer project.

Teaching

- Spring 2024 **Head Teaching assistant, CIS 512: Intro to Human-Computer Interaction**
University of Pennsylvania, Philadelphia, PA
- Winter 2019 **Teaching assistant, CS 228: Probabilistic Graphical Models**
Stanford University, Stanford, CA
- Winter 2018 **Teaching assistant, CS 228: Probabilistic Graphical Models**
Stanford University, Stanford, CA
- Spring 2018 **Teaching assistant, CS 224U: Natural Language Understanding**
Stanford University, Stanford, CA

Industry experience

- 2020 - 2022 **Apple, Cupertino**
Software Engineer – AI/ML
Worked on infrastructure supporting Siri, search and recommendations. Built and scaled search infrastructure that store, index and search data while protecting user privacy and security. Led development, testing and deployment of real-time search indexing that serves live data to user-facing domains such as Apple News, Weather, Sports. Volunteered in an organization-wide initiative to conduct candidate interviews with an emphasis on promoting inclusivity and diversity.

2019-2020 **Sisu Data, San Francisco**
Member of Technical Staff – Platform Engineering
Worked closely with product managers and product designers as an early engineering hire to launch core features of the data analytics platform. Implemented an user-interface allowing customers to examine individual factors affecting their KPIs. Optimized run-time and improved the scalability of the core, in-house statistical data mining algorithm. Shaped the candidate interview process, conducted interviews and mentored new engineers.

Talks and tutorials

2024 Lower Quantity, Higher Quality: Perceptions and Impact of Algorithmic News Curation on Twitter/X
International Conference on Computational Social Science (IC2S2), Philadelphia, PA. July, 2024
Northeast HCI Meeting, Pittsburgh, PA. May, 2024

Mentorship and service

2024 – Present **UPenn CS PhD Mentorship Program Organizer**

Skills

Programming

Python, R, JavaScript, SQL, Java, C, C++, HTML/CSS
Pytorch, Tensorflow, Pandas, scikit-learn

Software

LaTeX, Git, Jupyter Notebook, RStudio

Languages

English (native), Mandarin (advanced), French (intermediate)