

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.
 Coursework: Human-Computer Interaction (CS 512), Critical Perspectives on Online Trust and Safety (COMM 501), Contemporary Sociological Theory (SOC 601)
- 2019 **Stanford University**, Stanford, CA
 MS in Computer Science, Artificial Intelligence track
 Coursework: Artificial Intelligence (CS 221), Machine Learning (CS 229), Mining Massive Datasets (CS 246), Natural Language Understanding (CS 224U), Convex Optimization (EE 364)
- 2017 **Stanford University**, Stanford, CA
 BS in Symbolic Systems, Artificial Intelligence track
- Fall 2016 **Oxford University**, Oxford, UK
 Bing Overseas Studies Program

Honors and awards

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

Publications

- [4] Auditing Race and Gender Biases in Health and Well-being Online Advertisements
 Stephanie Wang, Renee Wurth, Lena Armstrong, Danaë Metaxa.
 Under review.
- [3] 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). [[Paper](#)]

- [2] 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). [[Paper](#)]
- [1] Efficient Model Search Using Log Data
 Jian Zhang, Max Lam, **Stephanie Wang**, Paroma Varma, Luigi Nardi, Kunle Olukotun, Christopher Ré.
 Workshop on Data Management for End to End Machine Learning (DEEM'18). [[Paper](#)]

Research experience

- 2023 – Present **Research Assistant, University of Pennsylvania**
 PI: 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 **Research Assistant, Stanford University**
 PI: Chris Ré. Worked on natural language interfaces for creating machine learning datasets. Contributed to projects on improving machine learning/ data science workflows (see pubs [1] and [2]).
- 2015 **Research Assistant, Stanford University**
 PI: James Landay. Worked on the Smart Primer project.

Teaching

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

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

Service

- 2025 **Reviewer, ACM CSCW**
- 2024 – Present **Organizer, CIS PhD Mentorship Program**
- 2024 – Present **Representative, School of Engineering and Applied Science Diversity Advisory Board**

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.

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), Chinese Mandarin (advanced), French (intermediate)