Kai Ji "Kevin" Feng

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Research Interests

Human-computer interaction: social computing, algorithm-in-the-loop decision making.

Education

2021 – **University of Washington**, Seattle, WA
Ph.D. Human Centered Design & Engineering
Co-advisors: David W. McDonald (HCDE), Amy X. Zhang (CSE)

2017 – 2021 **Princeton University**, Princeton, NJ
B.S.E. Computer Science, Magna cum laude
Thesis: *Lowering the Barrier for Web Advertisement Research at Scale*
Advisor: Arvind Narayanan
Minors: technology & society, visual arts

01 – 05 2020 **National University of Singapore**, Singapore
Visiting Student, Computer Science

Publications

* *denotes equal contribution.*

Refereed Conference and Journal Papers

[c.4] **K. J. Kevin Feng**, Tony W. Li, Amy X. Zhang. Understanding Collaborative Practices and Tools of Professional UX Practitioners in Software Organizations. *ACM Conference on Human Factors in Computing Systems (CHI '23)*. Hamburg, Germany. April 2023. [28.4% acceptance rate].

[c.3] **K. J. Kevin Feng**, David W. McDonald. Addressing UX Practitioners' Challenges in Designing ML Applications: an Interactive Machine Learning Approach. *ACM Conference on Intelligent User Interfaces (IUI '23)*. Sydney, Australia. March 2023. [24.1% acceptance rate].

[c.2] **K. J. Kevin Feng**, Kevin Song, Kejing Li, Oishee Chakrabarti, Marshini Chetty. Investigating How University Students in the United States Encounter and Deal With Misinformation in Private WhatsApp Chats During COVID-19. *Eighteenth Symposium on Usable Privacy and Security (SOUPS '22)*. Boston, MA. August 2022. [28% acceptance rate].

[c.1] Ruoxi Shang, **K. J. Kevin Feng**, Chirag Shah. Why Am I Not Seeing It? Understanding Lay Users' Needs in Counterfactual Explanations for Everyday Recommendations. *ACM Conference on Fairness, Accountability, and Transparency (FAccT '22)*. Seoul, South Korea. June 2022. [25% acceptance rate].

WORKSHOP PAPERS AND POSTERS

[w.2] **K. J. Kevin Feng***, Alice Gao*, Johanna S. Karras*. Towards Semantically Aware Word Cloud Shape Generation. *Adjunct Proceedings of the ACM Symposium on User Interface Software and Technology (UIST '22)*. Bend, OR. October 2022.

[w.1] **K. J. Kevin Feng**, Amy X. Zhang. From Handoffs to Co-Creation: Deepening Collaboration between Designers, Developers, and Data Science Workers in UX Design. *InContext Workshop at ACM Conference on Human Factors in Computing Systems (CHI '22)*. New Orleans, LA. May 2022.

THESES AND NON-REFEREED PAPERS

[n.2] **K. J. Kevin Feng**, Arunesh Mathur, Arvind Narayanan. Lowering the Barrier for Web Advertisement at Scale. *Princeton University Department of Computer Science*. Princeton, NJ. April 2021.

[n.1] **K. J. Kevin Feng**, Adam Finkelstein. Saving the Sonorine: Photo-Based Audio Recovery With Photometric Stereo. *Princeton University Department of Computer Science*. Princeton, NJ. January 2020.

CONFERENCE PAPERS IN SUBMISSION

K. J. Kevin Feng, Maxwell Coppock, David W. McDonald. Analyzing How UX Practitioners Communicate ML in Low-Fidelity Designs [title modified to ensure blind review].

K. J. Kevin Feng, Nick Ritchie, Pia Blumenthal, Andy Parsons, Amy X. Zhang. Effect of Provenance-Enabled Social Media Feeds on Perceptions of Media [title modified to ensure blind review].

Research Experience

01 2022 –   **Paul G. Allen School of Computer Science & Engineering, University of Washington**, Seattle, WA
Graduate Research Assistant
Advisor: Amy X. Zhang
Social media feed curation via machine teaching.

09 2021 –   **Human Centered Design & Engineering, University of Washington**, Seattle, WA
Graduate Research Assistant
Advisor: David W. McDonald
Interactive machine learning for UX practitioners to design ML-enabled applications.

08 2020 –   **University of Chicago AIRLab**, Remote
07 2021

Visiting Undergraduate Researcher
Advisor: Marshini Chetty
Investigating How University Students in the United States Encounter and Deal With Misinformation in Private WhatsApp Chats During COVID-19 [c.2].

06 2020 –
06 2021
Center for Information Technology Policy, Princeton, NJ
Undergraduate Researcher
Advisor: Arvind Narayanan
AdOculos: a search platform and dataset for analyzing ads on the web, aided by computer vision [n.2].

05 – 08 2020
Fluid Interfaces Group, MIT Media Lab, Remote
Visiting Undergraduate Researcher
Host: Nataliya Kosmyna
User-centered data visualizations for EEG and EOG sensing smart glasses.

02 – 04 2020
Smart Systems Institute, National University of Singapore, Singapore
Research Engineer Intern
Host: Chor Guan Teo
Assisting dentists in intraoral radiography using augmented reality on a mobile device.

09 2019 –
01 2020
Department of Computer Science, Princeton University, Princeton, NJ
Undergraduate Researcher
Advisor: Adam Finkelstein
Photo-based audio recovery for sonorines (early 20th century precursor to vinyl records) [n.1].

Industry Work Experience

06 – 09 2022
Microsoft, Responsible AI Tools, Bellevue, WA
Program Manager Intern
Conducted research on the role of machine learning scorecards in facilitating multi-stakeholder conversations about model deployment.

06 – 08 2021
Microsoft, Data Platforms + Growth, Remote
Program Manager Intern
Launched UI for data analysts to better organize and take action on their data.

09 2018 –
06 2021
Princeton Digital Learning Lab, Princeton, NJ
Lab Assistant
Helped students make the most use of in-lab programming and design tools for their academic and personal projects.

06 – 08 2019
The Muse, New York, NY
Product Management Intern
Built and launched new job search recommendation feature with a team of 2 engineers and a designer.

06 – 08 2018
Solomoto, Tel Aviv, Israel

Product Design Intern
Data dashboard design for small business management SaaS platform.

Awards & Honours

2022	UW Herbold Fellowship ($10,000)
2021	Princeton Research Day Faculty Highlighted Project (Computer Science)
2020	Princeton Council for Science and Technology Independent Project Award ($500)
2020	Princeton Office of Undergraduate Research Summer Research Award ($6400)
2019	IDEO CoLab Fellowship Finalist
2018	Keller Center for Innovation in Engineering Education Summer Fellow ($5000)

Talks & Presentations

06 2022	**User Perceptions of Media in Provenance-Enabled Social Media Feeds**, Coalition for Content Provenance and Authenticity (C2PA) Technical Working Group
04 2021	**Lowering the Barrier for Web Advertisement Research at Scale**, Princeton CITP, Princeton Research Day
05 2020	**ARBlockbot: Accessible Robotics and Programming Education in AR** (with D. Martin, A. Liu, A. Thatte), NUS Computing Innovation & Research Showcase
04 2020	**User Interface Design, Prototyping, and Testing**, Princeton ACM
12 2019	**Photo-based Audio Recovery Using Image Processing and Computer Vision Techniques**, Department of Computer Science, Princeton University
11 2018, 11 2019	**Introduction to User Interface Design**, HackPrinceton 2018 + 2019

Service

2021 –	**Reviewing:** UIST 2022, CSCW 2023, CHI 2023 **Student Volunteer:** IUI 2022, UIST 2022 **Departmental Service:** HCDE Visit Days 2023 session host
2020 – 2021	Organizer, Princeton intersession course on ethical technology
2019 – 2021	Princeton School of Engineering First-Year Student Advisor
2018 – 2021	Founder, Rehack (reverse hackathon for development of more socially responsible technologies)

Skills

Technical: Python, JavaScript, Java, Unity, C, OCaml, Go, SQL, HTML/CSS, LaTeX.
Other: Adobe Creative Suite, Figma, user research (interviews, surveys, qualitative coding), laser cutting, art exhibition installation, bookbinding, photography.

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