

Kai Ji “Kevin” Feng

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Research Interests

Human-computer interaction: social and collaborative computing, interactive machine learning.

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. [27.8% 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. [25.2% acceptance rate].

WORKSHOP PAPERS AND POSTERS

- [w.3] **K. J. Kevin Feng**, David W. McDonald, Amy X. Zhang. Teachable Agents for End-User Empowerment in Personalized Feed Curation. *Optimizing for What? Algorithmic Amplification on Society, a Knight First Amendment Institute symposium*. New York City, NY. April 2023. [18.9% acceptance rate].
- [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

06 2023 –
09 2023 **Fairness, Accountability, Transparency, and Ethics (FATE) Group, Microsoft Research, Montréal, Canada**
Research Intern
Host: Q. Vera Liao
Language models as a UX design material.

- 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 – **Center for Information Technology Policy, Princeton, NJ**
 06 2021 Undergraduate Researcher
Advisor: Arvind Narayanan
 AdOculus: 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 – **Department of Computer Science, Princeton University, Princeton, NJ**
 01 2020 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
- 2021 Princeton Research Day Faculty Highlighted Project (Computer Science)
- 2020 Princeton Council for Science and Technology Independent Project Award
- 2020 Princeton Office of Undergraduate Research Summer Research Award
- 2019 IDEO CoLab Fellowship Finalist
- 2018 Keller Center for Innovation in Engineering Education Summer Fellow

Talks & Panels

- 04 2023 **Teachable Agents for End-User Empowerment in Personalized Feed Curation**, Optimizing for What? Symposium by the Knight First Amendment Institute
- 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
- 04 2020 **User Interface Design, Prototyping, and Testing**, Princeton ACM Chapter
- 12 2019 **Photo-based Audio Recovery Using Image Processing and Computer Vision Techniques**, Department of Computer Science, Princeton University

II 2018,
II 2019

Introduction to User Interface Design, HackPrinceton 2018 + 2019

Service

2021 –

Reviewing: UIST 2022, CSCW 2023, CHI 2023, DIS 2023

Student Volunteer: IUI 2022, UIST 2022, CHI 2023

Departmental Service: HCDE Visit Days 2023 session leader

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.