K. J. Kevin Feng

Email: kjfeng@uw.edu
Web: kjfeng.me

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.6]   **K. J. Kevin Feng**, Nick Ritchie, Pia Blumenthal, Andy Parsons, Amy X. Zhang. Examining the Impact of Provenance-Enabled Media on Trust and Accuracy Perceptions. *Proceedings of the ACM on Human-Computer Interaction (CSCW '23)*. Minneapolis, MN. October 2023.

[c.5]   **K. J. Kevin Feng**, Maxwell James Coppock, David W. McDonald. How Do UX Practitioners Communicate AI as a Design Material? Artifacts, Conceptions, and Propositions. *ACM Conference on Designing Interactive Systems (DIS '23)*. Pittsburgh, PA. July 2023. [24.0% acceptance rate].

[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.1] **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.

Research Experience

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

01 2022 – Graduate Research Assistant, **Paul G. Allen School of Computer Science & Engineering, University of Washington**, Seattle, WA
Advisor: Amy X. Zhang

Social media feed curation via machine teaching.

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

08 2020 –   Visiting Undergraduate Researcher, **University of Chicago AIRLab**, Remote
07 2021   *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 –   Undergraduate Researcher, **Center for Information Technology Policy**, Princeton, NJ
06 2021   *Advisor: Arvind Narayanan*
AdOculos: a search platform and dataset for analyzing ads on the web, aided by computer vision [n.2].

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

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

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

Awards & Honours

2023   OpenAI Democratic Inputs to AI grant
1 of 10 teams selected from 800+ worldwide.
2022   UW Herbold Fellowship
1 of 7 selected from UW College of Engineering.
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
1 of 35 selected from Eastern US.
2018   Keller Center for Innovation in Engineering Education Summer Fellow

Talks & Panels

04 2023	**Panel: Empirical look at user behavior**, *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
11 2018, 11 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)

Mentoring

2023–	**Lawrence Tan**, UW CSE BS, working on teachable social media feed experiences.
2022–2023	**Tony Li**, UW HCDE MS, co-authored [c.4]. *Afterwards:* PhD student at UC San Diego CSE.
2022–2023	**Maxwell Coppock**, UW HCDE BS, co-authored [c.5].
2022	**Amodini Khade**, UW HCDE MS.
2022	**Katrina Vergara**, UW HCDE MS. *Afterwards:* Product Manager at Microsoft.

Industry Work Experience

06 – 09 2022	Program Manager Intern, **Microsoft, Responsible AI Tools**, Bellevue, WA Conducted research on the role of machine learning scorecards in facilitating multi-stakeholder conversations about model deployment.
06 – 08 2021	Program Manager Intern, **Microsoft, Data Platforms + Growth**, Remote Launched UI for data analysts to better organize and take action on their data.
09 2018 – 06 2021	Lab Assistant, **Princeton Digital Learning Lab**, Princeton, NJ

Helped students make the most use of in-lab programming and design tools for their academic and personal projects.

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

06 – 08 2018   Product Design Intern, **Solomoto**, Tel Aviv, Israel
Data dashboard design for small business management SaaS platform.

Skills

Technical: Python, JavaScript, Java, Unity, C, OCaml, Go, SQL, LaTeX.
Other: Adobe Creative Suite, Figma, qualitative and quantitative research methods, laser cutting, art exhibition installation, bookbinding, photography.

Last updated August 8, 2023. Typeset in EB Garamond.