

K. J. 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
M.S. Human Centered Design & Engineering (completed June 2023)
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.

CONFERENCE PAPERS IN SUBMISSION

K. J. Kevin Feng, Xander Koo, Lawrence Tan, Amy S. Bruckman, David W. McDonald, Amy X. Zhang. Interactive machine teaching in online feeds [title modified for anonymous review].

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*
AdOculus: a search platform and dataset for analyzing ads on the web, aided by computer vision [n.1].
- 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).

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.
- 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 **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 2023–2024, 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.