

# 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  
Co-advisors: David W. McDonald (HCDE), Amy X. Zhang (CSE)
- 2021 – 2023 M.S. Human Centered Design & Engineering
- 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. [32.7% acceptance rate].
- [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.4] **K. J. Kevin Feng**, Quan Ze (Jim) Chen, Inyoung Cheong, King Xia, Amy X. Zhang. Case Repositories: Towards Case-Based Reasoning for AI Alignment. *AI Meets Moral Philosophy and Moral Psychology (MP2) workshop @ NeurIPS '23*. New Orleans, LA. December 2023.
- [w.3] **K. J. Kevin Feng**, David W. McDonald, Amy X. Zhang. Teachable Agents for End-User Empowerment in Personalized Feed Curation. *Knight First Amendment Institute symposium: Optimizing for What? Algorithmic Amplification on Society*. 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 @ CHI '22*. New Orleans, LA. May 2022.

#### THESES AND NON-REFEREED PAPERS

- [n.1] **K. J. Kevin Feng**. Lowering the Barrier for Web Advertisement Research at Scale. *Princeton University Department of Computer Science*. Princeton, NJ. April 2021.

#### 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 *Host: 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 860+ worldwide.*

2022	UW Herbold Fellowship <i>1 of 7 selected from UW College of Engineering.</i>
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

## Invited Talks & Panels

2023	<b>Teachable Agents for End-User Empowerment in Personalized Feed Curation</b> Machine Intelligence and Normative Theory (MINT) Lab, Australian National University <b>Canvil: Supporting Designerly Model Adaptation in LLM-Powered User Experiences</b> UW HCDE Academic Research Seminar Microsoft Research Montréal Microsoft Research FATE Group Microsoft Research HCI Seminar <b>[Panel] Empirical look at user behavior</b> <i>Optimizing for What? Algorithmic Amplification on Society</i> , Knight First Amendment Institute
2022	<b>User Perceptions of Media in Provenance-Enabled Social Media Feeds</b> Coalition for Content Provenance and Authenticity (C2PA) Technical Working Group
2021	<b>Lowering the Barrier for Web Advertisement Research at Scale</b> Princeton Center for Information Technology Policy Princeton Research Day
2020	<b>User Interface Design, Prototyping, and Testing</b> Princeton ACM Chapter
2019	<b>Photo-based Audio Recovery Using Image Processing and Computer Vision Techniques</b> Department of Computer Science, Princeton University <b>Introduction to User Interface Design</b> HackPrinceton 2019
2018	<b>Introduction to User Interface Design</b> HackPrinceton 2018

## Service

2021 –	<b>Reviewing:</b> UIST 2022, CSCW 2023, CHI 2023–2024, DIS 2023 <b>Student Volunteer:</b> IUI 2022, UIST 2022, CHI 2023 <b>Departmental Service:</b> HCDE Visit Days 2022 + 2023 session leader, HCDE PhD orientation student panelist
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–  
2022–2023 **Lawrence Tan**, UW CSE BS, working on teachable social media feed experiences.  
**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, **Responsible AI, Azure Machine Learning, Microsoft**, 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, **Data Platforms + Growth, Microsoft**, Remote  
Launched UI for data analysts to better organize and take action on their data.
- 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,  $\text{\LaTeX}$ .

**Other:** Adobe Creative Suite, Figma, qualitative and quantitative research methods, laser cutting, art exhibition installation, bookbinding, photography.