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.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 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**. 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*
AdOculos: 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 NJ
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
  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 |

Invited Talks & Panels

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

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

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