Kai Ji "Kevin" Feng

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Research Interests

Human-computer interaction: AI/ML usability, automated machine learning (AutoML) tools, collaboration & online discourse.

Education

2021 –
University of Washington, Seattle, WA
Ph.D. Human Centered Design & Engineering
Rotation advisors: David W. McDonald (HCDE), Amy X. Zhang (CSE), Cecilia Aragon (HCDE)

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

Research Experience

01 2022 –
Paul G. Allen School of Computer Science & Engineering, University of Washington, Seattle, WA
Graduate Research Assistant
Advisor: Amy X. Zhang
Provenance-enabled interfaces for media on the web; UX collaboration in software product development.

09 2021 –
Human Centered Design & Engineering, University of Washington, Seattle, WA
Graduate Research Assistant
Advisors: David W. McDonald, Cecilia Aragon
Exploring whether and how AutoML tools aid non-experts in designing ML-based applications; improving wordclouds via semantic grouping.

08 2020 –
07 2021
University of Chicago AIRLab, Remote
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.

06 2020 – 06 2021	**Center for Information Technology Policy**, Princeton, NJ Undergraduate Researcher *Advisor: Arvind Narayanan* AdOculos: 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 – 01 2020	**Department of Computer Science, Princeton University**, Princeton, NJ Undergraduate Researcher *Advisor: Adam Finkelstein* Photo analysis algorithms for recovering audio from sonorines (early 20th century analog sound storage medium) [n.1].

Publications

* denotes equal contribution.

Refereed Conference and Journal Papers

[c.1] Ruoxi Shang, **K. J. Kevin Feng**, Chirag Shah. Understanding Lay Users' Needs in Counterfactual Explanations for Everyday Recommendations. *ACM Conference on Fairness, Accountability, and Transparency (FAccT '22)*. Seoul, Korea. June 2022. [25% acceptance rate].

Workshop and Demo Papers

[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. Workshop Paper.

In submission

Oishee Chakrabarti*, **K. J. Kevin Feng***, Kejing Li*, Kevin Song*, Marshini Chetty. Investigating How University Students in the United States Encounter and Deal With Misinformation in Private WhatsApp Chats During COVID-19

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.

Industry Work Experience

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

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 & Presentations

04 2021   **Lowering the Barrier for Web Advertisement Research at Scale**, Princeton CITP, Princeton Research Day
05 2020   **ARBlockbot: Accessible Robotics and Programming Education in AR** (with D. Martin, A. Liu, A. Thatte), NUS Computing Innovation & Research Showcase
04 2020   **User Interface Design, Prototyping, and Testing**, Princeton ACM
12 2019   **Photo-based Audio Recovery Using Image Processing and Computer Vision Techniques**, Department of Computer Science, Princeton University
11 2018,   **Introduction to User Interface Design**, HackPrinceton 2018 + 2019
11 2019

Service

2021 –   **Reviewing:** UIST 2022
          Student Volunteer: IUI 2022, DIS 2022

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 fair, inclusive, and 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.