Kai Ji "Kevin" Feng

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Research Interests

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

Education

2021 – **University of Washington**, Seattle, WA
Ph.D. Human Centered Design & Engineering
Rotation advisor: David W. McDonald

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

09 2021 – **Human Centered Design & Engineering, University of Washington**, Seattle, WA
Graduate Research Assistant
Exploring whether and how AutoML tools aid non-experts in designing ML-based applications.
Advisor: David W. McDonald

08 2020 – 07 2021 **University of Chicago AIRLab**, Remote
Visiting Undergraduate Researcher
Investigating how users in the United States encounter and deal with misinformation on WhatsApp during COVID-19.
Advisor: Marshini Chetty

06 2020 – 06 2021 **Center for Information Technology Policy**, Princeton, NJ
Undergraduate Researcher
AdOculos: a search platform and dataset for analyzing ads on the web, aided by computer vision.
Advisor: Arvind Narayanan

05 – 08 2020 **Fluid Interfaces Group, MIT Media Lab**, Remote

Visiting Undergraduate Researcher
User-centered data visualizations for EEG and EOG sensing smart glasses.
Advisor: Nataliya Kosmyna

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

09 2019 – 01 2020 **Department of Computer Science, Princeton University**, Princeton, NJ
Undergraduate Researcher
Photo analysis algorithms for recovering audio from sonorines (early 20th century analog sound storage medium).
Advisor: Adam Finkelstein

Publications

* *denotes equal contribution*.

In submission

O. Chakrabarti*, **K. J. Feng***, K. Li*, K. Song*, M. Chetty. Investigating how users in the United States encounter and deal with misinformation on WhatsApp during COVID-19.

Non-refereed papers

K. J. Feng, A. Mathur, A. Narayanan. Lowering the Barrier for Web Advertisement at Scale. April 2021. *Princeton University Department of Computer Science*, Princeton, NJ.

K. J. Feng, A. Finkelstein. Saving the Sonorine: Audio Recovery Using Image Processing and Computer Vision. January 2020. *Princeton University Department of Computer Science*, Princeton, NJ.

Work Experience

06 – 08 2021 **Microsoft**, 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, 11 2019 **Introduction to User Interface Design**, HackPrinceton 2018 + 2019

Service

09 2019 – 05 2021 **Princeton School of Engineering First-Year Student Advisor**
Worked with a computer science faculty member to advise first-year engineering students.

09 2018 – 05 2021 **Rehack, Founder**
Founded and lead the inaugural reverse hackathon for students to promote the development of more fair, inclusive, and socially responsible technologies.

08 2020 – 02 2021 **Technology for a Just Society (JuST), Officer**
Worked with a cohort of students and computer science faculty to create a 1-week Princeton intercession course on ethical technology.

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.

Last updated October 1, 2021. Typeset in EB Garamond.