

Benjamin Xie

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EDUCATION

UNIVERSITY OF WASHINGTON

PH.D. IN INFORMATION SCIENCE

Dec 2021 • Seattle, WA

Code & Cognition Lab

Thesis: *Stakeholders' Interpretations of Data for Equitable Computing Education*

Advisor: Amy J. Ko. GPA: 3.9/4.0

MASSACHUSETTS INSTITUTE OF TECHNOLOGY

M.ENG. IN COMPUTER SCIENCE

June 2016 • Cambridge, MA

Conc. in artificial intelligence

Advisor: Hal Abelson. GPA: 4.7 / 5.0

B.S. IN COMPUTER SCIENCE

June 2015 • Cambridge, MA

Conc. in education. GPA: 4.5 / 5.0

LINKS

Twitter:// @benjxie

LinkedIn:// benjaminxie

Google Scholar:// rNbFbg8AAAAJ

Github:// bxie

COURSEWORK

GRADUATE

Advanced Educational Measurement

Current Issues in Tech. and Education

Item Response Theory

Computer-Supported Collab. Learning

{Quant., Qualitative, Design} Methods

Data, Politics, and Power

Value-Sensitive Design

Human Intelligence Enterprise

Machine Learning

UNDERGRADUATE

Games and Simulations for Education

User Interface Design

PROGRAMMING SKILLS

LANGUAGES

javascript, python, R, racket, SQL, java, MATLAB, HTML, CSS, PHP, ruby, scala

LIBRARIES & FRAMEWORKS

visualization: ggplot, pandas, d3.js.

front-end: react, angularJS, jQuery.

back-end: nodeJS, django, rails.

SOFTWARE & SERVICES

Google Cloud, linux, vim, git, Rstudio,

iPython, heroku, AWS, wordpress

RESEARCH EXPERIENCE

STANFORD HUMAN-CENTERED AI INSTITUTE, ETHICS CENTER

EMBEDDED ETHICS FELLOW

Sep 2022 - Present • Stanford, CA

- Collaborate with CS faculty and course assistants to develop ethics materials
- Conduct community-centered research to connect data with local environmental advocacy efforts in under-resourced communities
- Write grants with Stanford & community collaborators (\$254,870 awarded)

UNIVERSITY OF WASHINGTON INFORMATION SCHOOL

POSTDOCTORAL SCHOLAR, GRADUATE RESEARCH ASSISTANT, LECTURER

Aug 2016 - July 2022 • Seattle, WA

- Designed interactions with data for equitable computing education
- Collaborated with faculty, staff, university students, and education nonprofits
- Published 12 peer-reviewed papers and three magazine articles
- Taught course on introductory data science, assisted teaching 3 other courses
- Mentored 10 undergraduates (7 from historically under-represented groups)

CODE.ORG | RESEARCH & EVALUATION INTERN, CONSULTANT

June 2020 - Sep 2021 • Seattle, WA

- Conducted psychometric analysis of 139,097 responses to detect test bias
- Collaborated with 7 curriculum designers to improve curriculum & assessment
- Consulted with executive team on designing metrics for learning and inclusion

MIT APP INVENTOR | RESEARCH ASSISTANT, SUPERUROP SCHOLAR

Aug 2013 - Sep 2016 • Cambridge, MA

- Analyzed data from >10k users to understand how people learned computing
- Organized initiative with four universities to study user behavior

PROFESSIONAL EXPERIENCE

NOVOED | ENGINEERING & DATA SCIENCE INTERN

June 2015 - Aug 2015 • San Francisco, CA

Developed, fixed, tested, and deployed code, ranking algorithm, & testing suite

APPNEXUS | INTERN, API TEAM

June 2014 - Aug 2014 • New York, NY

Designed and validated data analysis system to aggregate log data

EBAY, INC. | INTERN, MARKETPLACES TEAM

May 2013 - Aug 2013 • San Jose, CA

Implemented data dashboard of multi-platform usage for eBay global marketplaces

AWARDS

- 2022 ACM CSCW Award for Contribution to Diversity & Inclusion
- 2022 UW Distinguished Dissertation Award, Departmental Nomination
- 2021 UW Marcy Migdal Fund for Edu. Equality, Honorable Mention
- 2016 National Science Foundation Graduate Research Fellowship (GRFP)
- 2015 MIT EECS-Google Research & Innovation Fellow

GRANTS

- 2023-25 Stanford Woods Institute Environmental Venture Projects (\$249,870)
- 2023 Stanford HAI & Accelerator for Learning: Gen. AI for Learning (\$5,000)
- 2020 NSF Non-Academic Research Internships for Grad. Students (\$35,056)