

# Jacob Yim

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Curriculum Vitae, November 2023

## Education

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**University of California, Berkeley** 2023—Present

M.S. in Computer Science

Advisor: Sarah E. Chasins

**University of California, Berkeley** 2019—2023

B.A. in Computer Science, minor in Data Science

## Research Experience

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**PLAIT Lab, UC Berkeley EECS** – Research Assistant 2022—Present

- Advised by Prof. Sarah E. Chasins
- Studied user interfaces for improving understandability of program synthesis outputs
- Built a program synthesizer for generating NumPy from naïve Python using component-based refactoring

**ACE Lab, UC Berkeley EECS** – Research Assistant 2023—Present

- Investigated student outcomes of flexible extensions policies in large undergraduate CS courses
- Contributed to an automated tool for requesting and granting extensions on assignments

**Teaming x Design, UC Berkeley Haas School of Business** – Research Software Developer 2021—Present

- Advised by Prof. Sara L. Beckman
- Built a data processing pipeline to support data analysis and feedback for students in team-based projects

## Publications

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\* = equal contribution

**Operationalizing Mastery Learning Through a Flexible Extension Policy** SIGCSE TS 2024

Yuerou Tang\*, [Jacob Yim](#)\*, Jordan Schwartz, Madison Bohannon, Dana Benedicto, Charisse Liu, Armando Fox, Lisa Yan and Narges Norouzi

Poster to appear in *Proceedings of the ACM Technical Symposium on Computer Science Education*

**Developing a Tool to Automate Extensions to Support a Flexible Extension Policy** SIGCSE TS 2024

Jordan Schwartz, Madison Bohannon, [Jacob Yim](#), Yuerou Tang, Dana Benedicto, Charisse Liu, Armando Fox, Lisa Yan and Narges Norouzi

Poster to appear in *Proceedings of the ACM Technical Symposium on Computer Science Education*

**Searching for Incidental Specifications** PLATEAU 2023

Jeremy Ferguson\*, Kevin Ye\*, [Jacob Yim](#)\*, and Justin Lubin

In *Proceedings of the Workshop on Evaluation and Usability of Programming Languages and Tools*

## Professional Experience

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**Amazon Web Services** – Software Development Engineer Intern Summer 2023

- Developed an API and web frontend to identify third-party software in Amazon internal repositories

**Amazon Web Services** – Software Development Engineer Intern Summer 2022

- Built a tool to dynamically query dependency graphs in Amazon's internal build system

**Nirmata** – Software Engineering Intern Summer 2021

- Developed and tested a distributed locking system and Kubernetes distributed workflow library

## Teaching

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### University of California, Berkeley

[Data 100: Principles and Techniques of Data Science](#) - TA

Summer 2022—Spring 2023

[Data 100: Principles and Techniques of Data Science](#) - Tutor

Fall 2021—Spring 2022

## External Service

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**Student Volunteer** – [SPLASH 2023](#)

2023

## Community Service

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**Berkeley Engineers and Mentors** – Director of Curriculum

2020—Present

- Taught weekly science lessons to K-8 students at Bay Area schools
- Headed Curriculum committee to develop hands-on STEM lessons delivered to 300+ K-8 students

## Honors and Awards

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• **UC Berkeley Regents' and Chancellor's Scholarship**

2019

• **Upsilon Pi Epsilon** (CS Honors Society)

2021