

# Peter E. Xu

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## Education

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### University of California, Berkeley

B.A. Computer Science, expected May 2018

GPA: 3.517

Current Coursework: Machine Structures, Efficient Algorithms and Intractable Problems

Relevant Coursework: Structure & Interpretation of Programs, Linear Algebra & Differential Equations, Multivariable Calculus, Data Structures, Discrete Math & Probability Theory

## Skills

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Proficient in Java, Python, HTML, CSS, Git. Experience with C, Angular.js, Node.js, MongoDB, and REST.  
Conversant in Mandarin.

## Work Experience

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### UC Berkeley Computer Science Department, Berkeley, CA

*Undergraduate Student Instructor - CS 61A, The Structure and Interpretation of Programs* January 2016 - Present

- Lead discussion sections to teach and reinforce course concepts.
- Hold weekly office hours to assist students.
- Help develop teaching materials.

*Tutor - CS 61A, The Structure and Interpretation of Programs*

June 2015 - December 2015

- Lead weekly small group tutoring to reinforce course concepts.
- Held weekly office hours to assist students.

### Model Predictive Control Lab, Berkeley, CA

May 2015 - September 2015

*Research Assistant under Professor Francisco Borelli*

- Developed a modular *Flappy Bird*-like game to simulate human decision-making tests, from which data is collected to form models of human decision-making. See projects section for more detail.

### Academic Talent Development Program, Berkeley, CA

*Instructor - Programming in Java Course*

June 2015 - August 2015

- Taught the Programming in Java course at ATDP, a UC Berkeley-affiliated summer program. Responsible for course curriculum and the learning of 23 students.

## Projects

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### HotBox-X ([www.hotbox-x.xyz](http://www.hotbox-x.xyz))

May 2015 - September 2015

- *Flappy Bird*-like game developed for the Model Predictive Control Lab at Berkeley. Game modes and parameters are configurable by the researcher.
- Data such as player, obstacle, and reward positions are recorded for research purposes.

### Yannotator ([www.yannotator.xyz](http://www.yannotator.xyz))

October 2015 - November 2015

*Team: Peter Xu, Brijen Thananjeyan, Revati Kapshikar*

- YouTube video annotator web application. Supports keyboard and speech-to-text annotating.
- Notes show up at specified start time and persist for a user-set period of time as video plays.
- Annotations are shareable through room codes so that others may join, read, and contribute annotations.

## Activities & Honors

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### Upsilon Pi Epsilon (CS Honors Society), Berkeley, CA

*Publicity Chair*

May 2015 - December 2015

- Publicize UPE events through social media and on-campus advertising.
- Hold weekly office hours.

## Interests

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Loves anything and everything green tea. Enjoys running, Disney movies, and making intentionally bad Photoshop art.