

# Justin Zhang

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## EDUCATION

### Purdue University

*PhD in Computer Science*  
GPA: 4.0

West Lafayette, IN

Aug 2024 – May 2028

### Carnegie Mellon University

*MS in Computer Science (Thesis)*  
GPA: 4.0 Thesis: Secure Convertible Codes

Pittsburgh, PA

May 2023 – May 2024

### Carnegie Mellon University

*BS in Computer Science, Concentration in Algorithms, Minor in Math*  
GPA: 3.78, University Honors

Pittsburgh, PA

Aug 2019 – May 2023

## PUBLICATIONS

Amortized Local Decodable Codes for Insertions and Deletions

Jeremiah Blocki, **Justin Zhang**

ITC '25 [[arxiv](#)] [[conf](#)]

Amortized Local Decodable Codes

Jeremiah Blocki, **Justin Zhang**

ISIT '25 [[arxiv](#)] [[conf](#)]

Secure Convertible Codes for Eavesdropper Attacks

**Justin Zhang**, K.V. Rashmi

ISIT '25 [[conf](#)]

## TEACHING

**CS381 Fundamental Algorithms (TA)**

Spring '26

**CS251 Data Structures and Algorithms (TA)**

Fall '25 (**Head**), Spring '25, Fall '24

**15151 Math Foundations for Computer Science (Tutor)**

Spring '24

**21373 Algebraic Structures (TA)**

Fall '23

**21301 Combinatorics (TA)**

Spring '23

**15150 Functional Programming (TA)**

Spring '21, Summer '21, Fall '21, Spring '22, Spring '23

## WORK

**Amazon**, Software Development Intern

May 2024 – August 2024

Deployed an API migration of an integral component of the cross-borders Amazon fulfillment process.

**Goldman Sachs**, Software Engineering Intern

June 2022 – August 2022

Modernized and reduced latency within the trader permissions streaming pipeline.

**GPN Lab @ UPMC**, Python Programmer

July. 2021 – June 2022

Developed a sophisticated pacman-like game application with Pygame and PyInstaller.

## AWARDS

**Herbold Scholarship (2024-25)**

One year scholarship given by the Herbold Foundation for doctoral studies support. 1 of 12 nominated from Purdue.

**Presidential Doctoral Excellence Award (2024-28)**

Four years of support for outstanding scholarly potential. 150 of 5500 incoming PhD students nominated.

**Tepper Scholarship (2022-23)**

Selected as a recipient for high achieving academic performance. Semesters received: S22,F22,S23

**UEAA Scholarship (2021-22)**

Scholarship for academic and personal achievement while dedicating time and effort to serve the Chinatown community.

## VOLUNTEERING

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**UEAA Fun Fun Saturday**

May 2016 – August 2022

*Volunteer Assistant Director of Classes, Volunteer Instructor*

## PROFESSIONAL SERVICE

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Subreviewer for IEEE Security & Privacy (2025,2026)

Sloan Center for Systemic Change Graduate Student Ambassador (2025-26)