

# Justin Zhang

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## EDUCATION

<b>Purdue University</b> <i>PhD in Computer Science</i> GPA: 4.0	West Lafayette, IN <i>Aug 2024 – May 2028</i>
<b>Carnegie Mellon University</b> <i>MS in Computer Science (Thesis)</i> GPA: 4.0 <u>Thesis</u> : Secure Convertible Codes	Pittsburgh, PA <i>May 2023 – May 2024</i>
<b>Carnegie Mellon University</b> <i>BS in Computer Science, Concentration in Algorithms, Minor in Math</i> GPA: 3.78, University Honors	Pittsburgh, PA <i>Aug 2019 – May 2023</i>

## 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

<b>CS381 Fundamental Algorithms (TA)</b>	Spring '26
<b>CS251 Data Structures and Algorithms (TA)</b>	Fall '25 ( <b>Head</b> ), Spring '25, Fall '24
<b>15151 Math Foundations for Computer Science (Tutor)</b>	Spring '24
<b>21373 Algebraic Structures (TA)</b>	Fall '23
<b>21301 Combinatorics (TA)</b>	Spring '23
<b>15150 Functional Programming (TA)</b>	Spring '21, Summer '21, Fall '21, Spring '22, Spring '23

## WORK

<b>Amazon</b> , Software Development Intern	May 2024 – August 2024
Deployed an API migration of an integral component of the cross-borders Amazon fulfillment process.	
<b>Goldman Sachs</b> , Software Engineering Intern	June 2022 – August 2022
Modernized and reduced latency within the trader permissions streaming pipeline.	
<b>GPN Lab @ UPMC</b> , Python Programmer	July. 2021 – June 2022
Developed a sophisticated pacman-like game application with Pygame and PyInstaller.	

## AWARDS

<b>Herbold Scholarship (2024-25)</b>	One year scholarship given by the Herbold Foundation for doctoral studies support. 1 of 12 nominated from Purdue.
<b>Presidential Doctoral Excellence Award (2024-28)</b>	Four years of support for outstanding scholarly potential. 150 of 5500 incoming PhD students nominated.
<b>Tepper Scolarship (2022-23)</b>	Selected as a recipient for high achieving academic performance. Semesters received: S22,F22,S23
<b>UEAA Scholarship (2021-22)</b>	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**

*Volunteer Assistant Director of Classes, Volunteer Instructor*

May 2016 – August 2022

## PROFESSIONAL SERVICE

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Subreviewer for IEEE Security & Privacy (2025,2026)

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