

Justin Zhang

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EDUCATION

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

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 EXPERIENCE

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.	

RELEVANT GRADUATE COURSEWORK

@ **Purdue**

- Randomized Algorithms
- Advanced Cryptography
- Pseudorandomness (Special Topics)
- Password & Authentication (Special Topics)
- Zero Knowledge Proofs (Special Topics)

@ **Carnegie Mellon**

- CS Theory Toolkit
- Intro to Cryptography
- Graduate Algorithms
- Randomness in Computation (Special Topics)
- Cryptography Algorithms (Special Topics)

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 Scolarship (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

UEAA Fun Fun Saturday

May 2016 – August 2022

Volunteer Assistant Director of Classes, Volunteer Instructor

PROFESSIONAL SERVICE

Reviewer for IEEE ISIT (2026)

Subreviewer for IEEE Security & Privacy (2025,2026)

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