

EDUCATION

Yale University, New Haven, CT.

Aug 2022 – Present

Ph.D. in Computer Science.

Selected courses: Big Data Systems, Distributed Systems, Randomized Algorithms, Blockchain

Cornell University, Ithaca, NY.

Aug 2018 – May 2022

B.A. in Computer Science, *magna cum laude*. GPA: 3.97/4.00

Selected courses: Cryptography, System Security, Computer Networking, Database Systems

PUBLICATIONS

Grace Jia, Alex Wong, Anurag Khandelwal. [“Found in Translation: A Generative Language Modeling Approach to Memory Access Pattern Attacks.”](#) In *Proceedings of the 34th USENIX Conference on Security Symposium*, 2025.

Mahdi Soleimani, **Grace Jia**, In Gim, Seung-seob Lee, Anurag Khandelwal. [“Wiretapping LLMs: Network Side-Channel Attacks on Public LLM Service.”](#) 2025. [In submission]

Mahdi Soleimani, **Grace Jia**, Anurag Khandelwal. [“Weave: Efficient and Expressive Oblivious Analytics at Scale.”](#) In *Proceedings of the 19th USENIX Conference on Operating Systems Design and Implementation (OSDI)*, 2025.

Grace Jia, Rachit Agarwal, Anurag Khandelwal. [“Length Leakage in Oblivious Data Access Mechanisms.”](#) In *Proceedings of the 33rd USENIX Conference on Security Symposium*, 2024.

PROFESSIONAL EXPERIENCE

Yale Computer Science Department

Aug 2022 – Present

Research Assistant

Advisor: Prof. Anurag Khandelwal

- Implemented **correlated access pattern attack** on confidential computing environments, achieving 70–99% accuracy in predicting private data; now developing efficient mitigations
- Formulated **network side-channel attack on LLM services** with up to 92% accuracy
- Developed Weave system for **oblivious cloud analytics**, improving execution times by 4-10× over prior state-of-the-art

Cornell Computer Science Department

Feb 2021 – May 2022

Research Assistant

Advisor: Prof. Rachit Agarwal

- Designed **length-hiding oblivious access** mechanisms for various leakage scenarios and proved their performance lower bounds
- Developed new analytical framework for length leakage setting and security-performance tradeoff

Palo Alto Networks	Summer 2021
<i>Cloud Services Portal Engineer Intern</i>	<i>Santa Clara, CA</i>
• Deployed single sign-on feature using JSON Web Tokens to establish shared Identity and Access Management (IAM) system across all company microservices	

Klaviyo	Summer 2020
<i>Software Engineer Intern</i>	<i>Boston, MA</i>
• Scaled up asynchronous task system for profile CSV exports using RabbitMQ and Celery, handling greater customer size and demand	

Applied Science and Technology Research Institute	Summer 2019
<i>Summer Intern</i>	<i>Hong Kong</i>
• Evaluated statistical and deep learning methods for fake news classification	

GRANTS & AWARDS

Yale Kwok Family Scholarship Fund	2024
Yale Student Fellowship	2022

TEACHING & SERVICE

Graduate Student Assembly , Yale University.	2025 – Present
<i>Elected representative</i> for Physical Sciences & Engineering Division, 14 departments	
Deepfake, Deception, and Disinformation Security Workshop (3D-Sec).	Aug 2025
<i>Technical Program Committee Member</i>	
CPSC 422: Design & Implementation of Operating Systems , Yale University.	2024 – 2025
CS 2800: Discrete Structures , Cornell University.	2019 – 2020

SKILLS

Languages: Python, C, C++, Rust, OCaml, JavaScript, Java

Software & Development: Git, Linux, PyTorch, Hugging Face, React