Haodong Yang

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Education

Syracuse University — Syracuse, NY
Ph.D. student in Computer Science — *2022-Present*
- GPA: 3.918

Syracuse University — Syracuse, NY
Master in Computer Science — *2021-2023*
- GPA: 3.926
- ECS Excellence Scholar in 2022 Summer

Colorado State University — Fort Collins, CO
Bachelor in Computer Science
- GPA: 3.978/4.0
- Dean's List

Colorado State University — Fort Collins, CO
Bachelor in General Math
- GPA: 4.0/4.0
- Dean's List

Relevant Coursework: Coding theory, Quantum information, Quantum Error Correction, Graph Theory, Linear Algebra, Abstract Algebra, Homological algebraic, Cryptography, Data Structures, Algorithms, Computer Systems, Computer Security, Networking Security, Advanced Calculus, Complex Variables, Statistics

Publication

- Chen Quan, Nandan Sriranga, Haodong Yang, Yunghsiang S. Han, Baocheng Geng, and Pramod K. Varshney. Efficient ordered-transmission based distributed detection under data falsification attacks. *IEEE Signal Processing Letters*, 30:145–149, 2023
- Venkata Gandikota, Nikita Polyanskii, and Haodong Yang. Combinatorial group testing in presence of deletions, 2023
- Haodong Yang and Venkata Gandikota. Locally correctable lattices. In *ICASSP 2025 - 2025 IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP)*, pages 1–5, 2025
- Haodong Yang, Qiwen Zhu, and Venkata Gandikota. Sublinear time support recovery in 1-bit compressed sensing. In *2025 IEEE International Symposium on Information Theory (ISIT)*, 2025
- Arick Grootveld, Haodong Yang, Biao Chen, Venkata Gandikota, and Jason Pollack. Towards quantum universal hypothesis testing. In *2025 IEEE Information Theory Workshop (ITW)*, 2025
- Haodong Yang, Joshua Kortje, Jithin Jagannath, Anu Jagannath, Biao Chen, and Pramod K. Varshney. Enhancing spectrum sensing through coupled Hidden Markov Models. In *2025 IEEE Military Communications Conference (MILCOM)*, 2025

Awards

- **Third Place** — ECS Research Day, Syracuse University (2025)

Projects

Design and Implement SDN in Virtual Machine | *software design network* — February 2021 - May 2021
- Design SDN (software design network)
- Java and Python combined project. Use OpenFlow packet in Java for network traffic simulation. Using Python to build web-server.
- Basing shortest Path , Traffic diversion, Max Flow algorithm to design the SDN. Separating network traffic to avoid Network congestion.

Experience

Embedded Engineer Intern Nov 2017 – Jan 2018

Cassia Networks *Beijing, China*

- Designed and implemented data synchronization and analytics for IoT web and mobile applications.
- Developed data-processing workflows in **JavaScript** and **Java**.
- Used GitHub for version control, code reviews, and issue tracking.

Additional Skills

Languages: Julia ,Python, Java, JS, C++, C, SQL
Frameworks: React, Vue, OpenFlow, Hadoop
Developer Tools: VSCode, IntelliJ