

# Haodong Yang

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## EDUCATION

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### Syracuse University

*Ph.D. student in Computer Science*

- GPA: 3.918

Syracuse, NY

*2022-Present*

### Syracuse University

*Master in Computer Science*

- GPA: 3.926
- ECS Excellence Scholar in 2022 Summer

Syracuse, NY

*2021-2023*

### Colorado State University

*Bachelor in Computer Science*

- GPA: 3.978/4.0
- Dean's List

Fort Collins, CO

### Colorado State University

*Bachelor in General Math*

- GPA: 4.0/4.0
- Dean's List

Fort Collins, CO

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

## PUBLICATION

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- 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

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

## PROJECTS

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### 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

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### **Embedded Engineer Inter**

November 2017 – January 2018

*CassiaNetworks*

*Beijing China*

- Design data synchronization and data analysis on the web and application sides of the Internet of Things
- Use JS and Java to process data and analyze
- Use github to synchronize the process

## ADDITIONAL SKILLS

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**Languages:** Julia ,Python, Java, JS, C++, C, SQL

**Frameworks:** React, Vue, OpenFlow, Hadoop

**Developer Tools:** VSCode, IntelliJ