

GARRETT GREINER

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EDUCATION

University of Utah

Ph.D. Candidate, Computer Science

- Ph.D. Advisor: Dr. Pratik Soni
- Research area: Cryptography

Salt Lake City, Utah

August 2024 - Present

Trinity University

B.S. in Computer Science with Additional Math Major

- GPA: 3.89/4.00
- Honors Thesis: “*Multi-Modal EEG NEO-FFI with Trained Attention Layer (MENTAL) for Mental Disorder Prediction*”
- Thesis Advisor: Dr. Yu Zhang

San Antonio, Texas

August 2020 - May 2024

PUBLICATIONS

4. **New Constructions of Functional Adaptor Signatures: Broader Functions and Improved Efficiency**
Nikhil Vanjani[†], Garrett Greiner[†], Sri AravindaKrishnan Thyagarajan, Pratik Soni
IEEE S & P 2026
(CORE Rank: A*)
3. **HyperVerITAS: Verifying Image Transformations at Scale on Boolean Hypercubes**
Garrett Greiner[†], Toshi Mowery[†], Pratik Soni
PoPETs 2026
(CORE Rank: A)
2. **Multi-modal EEG NEO-FFI with Trained Attention Layer (MENTAL) for Mental Disorder Prediction**
Garrett Greiner[†], Yu Zhang
Brain Informatics 2024
(CORE Rank: N/A)
1. **Detecting Image Forgery Using Support Vector Machine and Texture Features**
Garrett Greiner[†], Eva Tuba
IDEAL 2023
(CORE Rank: C)

([†] denotes first author, CORE Rank denotes conference rating)

AWARDS AND HONORS

- Won the **Outstanding Senior Research Award** from Trinity University 2024
Not awarded every year, this honor recognizes a senior with an excellent record of CS Research
- Won the **Outstanding Junior Research Award** from Trinity University 2023
Not awarded every year, this honor recognizes a junior with an excellent record of CS Research
- Member of **Upsilon Pi Epsilon** 2023-Present
Honor Society for the Computing and Information Disciplines
- Member of **Kappa Mu Epsilon** 2022-Present
Mathematics Honor Society
- Awarded the **Murchison Scholarship** for academic excellence by Trinity University 2020
\$25,000 annual tuition scholarship

- RESEARCH EXPERIENCE
- **Graduate Research Assistant**, University of Utah August 2024 - Present
Advised by: Dr. Pratik Soni
 - **Undergraduate Research Assistant**, Trinity University May 2021 - May 2024
Advised by: Dr. Yu Zhang
 - **Undergraduate Research Assistant**, Trinity University August 2023 - May 2024
Advised by: Dr. Cabral Balreira
 - **Undergraduate Research Assistant**, Trinity University March 2023 - November 2023
Advised by: Dr. Eva Tuba
- TEACHING EXPERIENCE
- **Teaching Assistant - Artificial Intelligence (CSCI 3344)**, Trinity University Spring 2024
 - **Teaching Assistant - Principles of Algorithms (CSCI 3322)**, Trinity University Fall 2023
- RESEARCH TALKS
- **HyperVerITAS: Efficient and Privacy-Preserving Image Provenance for AI-Generated Images** June 2025
2025 Utah AI Summit, University of Utah
 - **Multi-Modal EEG NEO-FFI with Trained Attention Layer (MENTAL) for Mental Disorder Prediction** July 2023
18th Annual Summer Undergraduate Research Conference, Trinity University
 - **Multi-Dimensional Interpretable Interaction Network (MDiiN) for Modeling Aging Health and Mortality** November 2022
6th Annual Symposium for Undergraduate Research Exploration (SURE), UT Austin
 - **Multi-Dimensional Interpretable Interaction Network (MDiiN) for Modeling Aging Health and Mortality** July 2022
17th Annual Summer Undergraduate Research Conference, Trinity University
 - **Interpreting Neural Network Models on Age-Associated DNA Methylation** July 2021
16th Annual Summer Undergraduate Research Conference, Trinity University