

CATIE ACITELLI

◇ Research Interests ◇

I am interested in facilitating undergraduate and graduate research in the area of Mathematical Cryptography. Below, please find examples of potential student research projects.

- Develop an Additive RSA Scheme
- Extend encryption algorithms to signature schemes for various pre-quantum Cryptosystems
- Develop Zero Knowledge Proofs for the NTRUEncrypt Cryptosystem
- Develop Blind Signature Scheme Protocol for the NTRUEncrypt Cryptosystem
- Explore connections between Graphy Theory and Cryptography
- Make modifications to know Cryptographic schemes and develop standard protocols