

Nicholas Jankovic

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SUMMARY

First-year PhD student at the Georgia Institute of Technology advised by Prof. Vassilis Zikas. Previously received a bachelors in Computer Science and Applied Mathematics at Brown University, where I worked with Prof. Anna Lysyanskaya. My interests lie in theoretical cryptography, with previous work on anonymous credentials and ongoing research in secure multi-party computation and post-quantum zero-knowledge proofs.

EDUCATION

Brown University

Graduated: May 2026

- GPA of 4.0/4.0; departmental honors
- Double concentrating in Computer Science (B.S.) and Applied Mathematics (B.A.)
- Relevant Coursework: Theoretical Cryptography, Mathematical Cryptography, Applied Cryptography, Abstract Algebra, Real Analysis, Theory of Computation, Proof Assistants for Projective Geometry, Quantum Physics, Differential Eqs
- Attended weekly Crypto Reading Group lectures and multiple Charles River Crypto Day conferences at MIT and BU

International School Bangkok (Thailand – IB Curriculum)

Graduated: May 2022

- Full IB score of 45/45 and full SAT superscore of 1600/1600
- Vice President of Student Council; President of “Computer Science 4 All”; co-founder of Bangkok Chess Tournament

RESEARCH EXPERIENCE

“Non-Interactive Threshold Mercurial Signatures with Applications to Threshold DAC”

Spring 2025 - Present

- Co-authored with Anna Lysyanskaya, Scott Griffy, and Arup Mondal
- Jointly came up with the core idea with my mentor, as a combination of ideas from different papers I’d read
- Iteratively designed the threshold signature construction with the team, progressing from informal sketches to full proofs, and finally extending the scheme to support threshold delegatable anonymous credentials
- Sole author of the unforgeability and pk class-hiding proofs for the extended signature scheme in the generic group model, a task that was highly non-trivial and amounted to over 30 pages of appendix material
- [Pre-print of paper](#) available here

“Temperature, Frequency, and Young’s Modulus of a Ching”

2021

- Worked with mentor in high school to develop physics project, collect data, write paper, and undergo editing process
- Research demonstrates validity of a new method to determine the elasticity constant of certain metals
- Published in the [International Scholastic Journal of Science](#)

WORK EXPERIENCE

Cryptography Head TA — Brown University

Fall 2025

- Head TA for Prof. Anna Lysyanskaya’s Introduction to Cryptography course for undergrad and grad students
- Selected and designed homework/exam problems and wrote solutions; held office hours to guide students through proofs; graded solutions and provided feedback on mathematical clarity and rigor; responded to student questions

Technical Architect Intern — ADT

Summer 2024

- Received Technical Intern Award for work done building, pitching, and deploying solution adopted by the team
- Collaborated with Enterprise Arch. team to analyze team data in Jira, process it in BigQuery, and display it in Tableau

Front-end Developer Intern — International School Bangkok

Summer 2023

- Designed and constructed React Native UI and front end for a student portal mobile app from the ground up
- Worked with client and back-end team to communicate requirements; provided documentation and detailed comments