

# Ioannis Kaklamanis

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## EDUCATION

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- **Yale University** New Haven, CT  
*PhD Student in Computer Science* May 2029 (Expected)  
**Coursework:** Post-Quantum Cryptography, Zero-Knowledge Proofs, Real-World Cryptography, Cryptography and Computation, Computer Networks
- **Massachusetts Institute of Technology** Cambridge, MA  
*Master of Engineering in Electrical Engineering and Computer Science* June 2023  
GPA: 5.0/5.0
- **Massachusetts Institute of Technology** Cambridge, MA  
*Bachelor of Science in Computer Science and Engineering* May 2022  
*Bachelor of Science in Mathematics*  
GPA: 4.7/5.0  
**Coursework:** Cryptography and Cryptanalysis (G), Applied Cryptography and Security (G), Distributed Algorithms (G), Advanced Complexity Theory (G), Seminar in Discrete Mathematics, Advances in Computer Vision

## EXPERIENCE

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- **Yale Graduate School of Arts and Sciences** New Haven, CT  
*Graduate Researcher; Yale Applied Cryptography Laboratory* August 2023 - present  
Advisor: [Prof. Fan Zhang](#)
  - Verifiable Aggregate Receipts protocols, with applications to user engagement auditing.
  - Censorship Resistance vs Throughput in Multi-Proposer BFT protocols.
  - Cross-chain interoperability protocols, with a focus on cross-rollup composability.
  - Single sign-on (SSO) protocols with anonymity and unlinkability guarantees.
  - Single Secret Leader Election (SSLE) protocols with accountability.
  - Registration-based Encryption.
- **Chainlink Labs** New Haven, CT (remote)  
*Research Intern* June - October 2025  
Mentor: [Dr. Gregory Neven](#)
  - Designed an identity system using the Chainlink Confidential Compute service as a “credential re-certifier”.
  - The system enables on-chain credentials that maintain user privacy and unlinkability.
- **Yale CPSC 364 (Blockchains) and CPSC 467 (Cryptography)** New Haven, CT  
*Teaching Fellow* September - December 2023; January - May 2025
  - Grading problem sets and exams, writing problems for problem sets and exams, holding office hours.
- **MIT class “Mathematics for Computer Science”** Cambridge, MA  
*Teaching Assistant* September 2021 - May 2022; January - May 2023
  - Taught two recitations per week, graded exams, wrote problems for problem sets and exams, held office hours.
- **MIT CSAIL: Networks and Mobile Systems Group** Cambridge, MA  
*Graduate Research Assistant (June 22 - May 23); Undergraduate Researcher (Feb - May 22)* February 2022 - May 2023  
Advisor: [Prof. Mohammad Alizadeh](#)
  - Demonstrated leader bottleneck in HotStuff, a state-of-the-art leader-based BFT consensus protocol.
  - Designed and implemented protocols for fault-tolerant broadcast in bandwidth-constrained networks.
- **MathWorks Engineering Development Group (EDG)** Somerville, MA (remote)  
*Software Engineering Intern* June - August 2021

- Created a Product Suggestion Service using Machine Learning and Deep Learning models (LSTM, BERT, SVM)
- **MIT Computer Science and Artificial Intelligence Lab (CSAIL)** Athens, Greece (remote)  
*Undergraduate Researcher; Project: Decoding the Language of Non-Human Species* July - December 2020
  - Developed and used Deep Learning algorithms to process sounds made by whales.
  - Created end-to-end pipeline for automatic source separation to attribute sounds to whales.

## PUBLICATIONS, PREPRINTS & AWARDS

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- F Elsheimy\*, **I Kamlamanis\***, S Wadhwa\*, C Papamanthou, and F Zhang. *Censorship Resistance vs Throughput in Multi-Proposer BFT Protocols*. 2026. Cryptology ePrint Archive, Paper 2026/126. <https://eprint.iacr.org/2026/126>
- **I Kamlamanis**, W Wang, H Malvai, and F Zhang. *Verifiable Aggregate Receipts with Applications to User Engagement Auditing*. 2025. Cryptology ePrint Archive, Paper 2025/2330. <https://eprint.iacr.org/2025/2330>
- J Alupotha, M Barbaraci, **I Kamlamanis**, A Rawat, C Cachin, and F Zhang. *Anonymous Self-Credentials and their Application to Single-Sign-On*. 2025. Cryptology ePrint Archive, Paper 2025/618. <https://eprint.iacr.org/2025/618>
- **Ioannis Kamlamanis** and Fan Zhang. *CRATE: Cross-Rollup Atomic Transaction Execution*. 2025. arXiv: <https://doi.org/10.48550/arXiv.2502.04659>
- **I. Kamlamanis**, L. Yang, and M. Alizadeh. 2022. Poster: Coded Broadcast for Scalable Leader-Based BFT Consensus. ACM SIGSAC Conference on Computer and Communications Security (CCS '22). <https://doi.org/10.1145/3548606.3563494>
- Boquila (Unlinkable User Single Sign-On) was the winning project of the [2024 IC3 Blockchain Camp Hackathon](#).
- MEng Thesis: [Fault Tolerant Broadcast in Bandwidth-Constrained Networks](#)

## SERVICE

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- Sub-reviewer for:
  - Asiacrypt 2024
  - USENIX 2025
  - TCC 2025
  - Eurocrypt 2026
  - CRYPTO 2026

## SKILLS AND INTERESTS

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- **Languages:** Proficient in Greek, English, French. Working knowledge of Spanish.
- **Technical:** Python, Go, Java, Rust, C++,  $\LaTeX$ , Javascript, Circom, Noir
- **College Activities:** Alpha Delta Phi, GEL, UPOP