

Bahi Amine

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Education

- **Ecole normale supérieure** 2024 – 2026
PhD, Computer Science Paris, France
- **Mohammadia School of Engineers** 2016 – 2019
Engineer's Degree, Computer Science Rabat, Morocco
- **CPGE - Classes Préparatoires aux Grandes Écoles** 2014 – 2016
Preparatory Classes Rabat, Morocco

Research Experience

- **Research Intern** 2023 – 2024
Northeastern University Boston, USA
 - Designed and implemented a low-latency encrypted multi-map (EMM) in C++ with low-leakage and subliminal modes. Integrated Path ORAM and queuing theory.
- **Doctoral Researcher** 2020 – 2023
UM6P College of Computing Marrakesh, Morocco
 - Researched searchable encryption (SSE), including multi-server volume-hiding EMM constructions and empirical evaluation of volume-hiding STE schemes.
 - Implemented experimental prototypes and ran statistical analyses of SSE efficiency/leakage metrics; observed approximately Zipf-like keyword frequency behavior in realistic workloads.
 - Explored whether Zipf-based leakage models transfer to equity market microstructure.
 - Investigated prophet inequalities and secretary-problem optimal-stopping theory for distribution-free prediction under unknown distributions.
- **Research Intern** 03/2019 – 06/2019
Inria Lyon, France
 - Integrated TFHE into an IoT healthcare activity recognition system; implemented encrypted inference circuits and optimized performance through benchmarking.

Publications

- **Privacy-preserving IoT Framework for Activity Recognition in Personal Healthcare Monitoring**
ACM Trans. Comput. Heal. (2021)
Théo Jourdan, Antoine Boutet, Amine Bahi, Carole Frindel
- **Subliminal Encrypted Multi-Maps and Black-Box Leakage Absorption**
IACR Cryptol. ePrint Arch. (2024)
Amine Bahi, Seny Kamara, Tarik Moataz, Guevara Noubir
- **tigro: Trust Infrastructure for Grassroots Organizing via Grounded Digital Annotations**
PETS (2026) Leah Namisa Rosenbloom, Seny Kamara, Zachary Espiritu, Tarik Moataz, Amine Bahi and John Wilkinson
- **Resizable Oblivious RAM**
EuroCrypt (2026) Amine Bahi, Brice Minaud, Tarik Moataz

Other Experience

- **Chief Technology Officer (CTO)** 05/2025 – Present
Rabiata Casper, USA
 - Led development of a Python-based trading platform that monitors and models trader behavior in real time to generate signals.
- **Software Engineering Intern** 07/2018 – 09/2018
DigiFlow Casablanca, Morocco (Remote)
 - Developed enterprise workflows with AgilePoint, including expense reports and AI-based process routing.
- **Software Engineering Intern** 06/2017 – 07/2017
Siprof S.A Berrchid, Morocco
 - Built VBA tools for production defect monitoring and asset management. Designed databases and visualizations.