ADRIAN HAMELINK

@ adrian@hamelink.com 📞 +41 (0) 79 961 24 10 ✉ Rue Couchirard 13, 1004 Lausanne 🐦 @adr1anh
🔗 adrianhamelink ○ adr1anh

PROFESSIONAL EXPERIENCE

Research Intern
Taurus Group

📅 September 2020 - current (40%) 📍 Lausanne

- Researching new cryptographic developments with applications to cryptocurrencies.
- Published survey of threshold ECDSA protocols.
- Implementating threshold ECDSA protocols.

GoLang

Software Development Intern
MindMaze

📅 July 2018 📍 Lausanne

- Implementation of heart-rate detection algorithm.

C Python signal processing

Student Assistant
Ecole Polytechnique Fédérale de Lausanne

📅 2016-2020 📍 Lausanne

- Object-Oriented Programming in C++ and Calculus I.

PROJECTS

A Survey of Threshold ECDSA Signing

- Joint work with J.-P. Aumasson (Taurus) & O. Schlomovits (ZenGo).
- Exposition of various ECDSA threshold signature schemes published in 2018-2020.
- Available on IACR Eprint.

Masters optional semester project

- Finding lower bounds on the complexity of isogeny evaluation.

algrabraic complexity isogeny based cryptography

Bachelor project

- Implementation and benchmarking of the Wesolowski Verifiable Delay Function.

RSA cryptography verifiable delay functions C

Various school projects

- Design and implementation of P2P client GoLang 2020
- Creation of Deep Learning framework Python 2020
- Implementation of broadcast algorithms C 2019
- Phyisical simulation with 3D visualization C++ 2016
- Creation and publication of iOS game Objective-C 2015

EDUCATION

Masters in Communication Systems
Ecole Polytechnique Fédérale de Lausanne

📅 2019 – current 📍 Lausanne

Bachelors in Mathematics
Ecole Polytechnique Fédérale de Lausanne

📅 2015 – 2019 📍 Lausanne

Maturité Gymnasiale
Collège Calvin

📅 2011 – 2015 📍 Geneva

SKILLS

Programming

C C++ GoLang Python Swift

Research and interests

Isogeny based cryptography Rust Blockchain Distributed algorithms Zero knowledge Implementing crypto

LANGUAGES

English ●●●●●
French ●●●●●
German ●●●○○
Dutch ●●●○○

HOBBIES

- Sports: Running, Swimming
- Cooking
- Travelling