

# Eleftherios "Lef" IOANNIDIS

## INFO

---

ADDRESS: 748 S Randolph St, Philadelphia, PA  
PHONE: +1 (267) 968-3532  
EMAIL: [elefthei@seas.upenn.edu](mailto:elefthei@seas.upenn.edu)

## EDUCATION

---

CURRENT PhD, *University of Pennsylvania*, Philadelphia, PA  
**Research:** *Research in formal security protocols and zero-knowledge proofs. I use types, proof-assistants like Coq, as well as push-button verification tools like Z3. Expected graduation 2025.*  
**Advisors:** Sebastian ANGEL, Steve ZDANCEWIC

JANUARY 2019 MASTER'S IN ENGINEERING, *CSAIL MIT*, Cambridge, MA  
**Major:** COMPUTER SCIENCE.  
**Thesis:** *Extracting and optimizing low-level bytecode from high-level verified Coq.*  
**Advisor:** Frans KAASHOEK, Nickolai ZELDOVICH, Adam CHLIPALA, CSAIL

JUNE 2015 BACHELOR'S IN COMPUTER SCIENCE, *MIT*, Cambridge, MA  
**Major:** ELECTRICAL ENGINEERING AND COMPUTER SCIENCE  
**Thesis:** *Parallel optimizations for the Halide DSL language.*  
**Advisor:** Prof. Saman AMARASINGHE, CSAIL

## WORK EXPERIENCE

---

MARCH 2019 - SEPTEMBER 2020 Investment Engineer at BRIDGEWATER Associates, Westport, CT  
Working on systematic investment logic.

MAY 2016 - OCTOBER 2017 Software Architect at UNIFYID, San Francisco, CA  
Principal engineer, designed and implemented the UnifyID back-end for implicit authentication.

SEPTEMBER 2015 - MAY 2016 Security Engineer at APPLE, Cupertino, CA  
*FairPlay and DRM group*  
Application Security, LLVM Compiler, Reverse Engineering and mitigation.

## CONFERENCE TALKS

---

APR. 2019 **Speaker**, MCQC: Extracting and optimizing formally verified code, NASA Formal Methods Symposium (NFM 2019), Houston, TX.

APR. 2017 **Speaker**, Data aware Nginx for Machine Learning, Nginxconf 2017, Portland, OR.

APR. 2017 **Speaker**, Scalable ML microservices on GPUs, Dockercon 2017, Austin, TX.

FEB. 2017 **Speaker**, Secure, real-time data collection on mobile, MadCon 2017, Austin, TX.