# IAN MCQUOID

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## EXPERIENCE

### Cryptography Research Intern
**MIT Lincoln Laboratory**

📅 June 2022 — February 2023　　📍 Remote, USA

Perform research on the design and implementation of privacy preserving machine learning algorithms. Work in Python with Tensorflow and MPSPDZ using Git for version control.

### Cryptography Research Intern
**Cloudflare**

📅 June 2021 — September 2021　　📍 Remote, USA

Perform research on authentication protocols and work on existing Javascript and Go libraries for cryptographic protocols. Work in an agile environment using Git for version control.

### Software Engineering Intern
**Mentor Graphics**

📅 June 2019 — December 2019　　📍 Wilsonville, OR

Implement performance analysis paradigms and develop tools for analyzing static and JIT runtimes using VTune, Collect, and PAPI. Decrease the execution time of an internal tool by a factor of 1000. Work on a large codebase in C using perforce for version control.

### Software Engineering Intern
**Digimarc Corporation**

📅 April 2018 — September 2018　　📍 Beaverton, OR

Follow object oriented and functional software engineering paradigms in Python and C++. Debug code on Linux, OSX, and Windows platforms. Work in an agile environment with a team of six people using Git for version control.

## PUBLICATIONS

### 👥 Conference Proceedings

- McQuoid, Ian, Mike Rosulek, and Jiayu Xu (2022). "How to Obfuscate MPC Inputs". In: *TCC 2022: 20th Theory of Cryptography Conference*. Springer, pp. 151–180.
- McQuoid, Ian, Mike Rosulek, and Lawrence Roy (2021). "Batching Base Oblivious Transfers". In: *Advances in Cryptology – ASIACRYPT 2021*. Springer.
- – (2020). "Minimal Symmetric PAKE and 1-out-of-N OT from Programmable-Once Public Functions". In: *ACM CCS 2020: 27th Conference on Computer and Communications Security*. ACM Press, pp. 425–442.
- McQuoid, Ian, Trevor Swope, and Mike Rosulek (2019). "Characterizing Collision and Second-Preimage Resistance in Linicrypt". In: *TCC 2019: 17th Theory of Cryptography Conference*. Springer, pp. 451–470.

## MY LIFE PHILOSOPHY

*"Learning is a process, not a goal. Everything and everyone is a source of knowledge."*

## AWARDS

🏆 **Eagle Scout**
My project was in trail reconstruction on Mount McLoughlin

## STRENGTHS

Quick Learner　　Eye for detail

Communicator

## LANGUAGES

C　　C++　　Python

## EDUCATION

### Ph.D. in Computer Science - Cryptography
**Oregon State University**

📅 January 2020 – Ongoing

GPA: 4.00

### B.Sc. in Computer Science
**Oregon State University**

📅 June 2019

GPA: 3.99

### B.Sc. in Mathematics
**Oregon State University**

📅 June 2019

Overall GPA: 3.89