

DIEGO ROQUE

428 Memorial Drive · droque@mit.edu · 857-600-0199 · github.com/diego9627

EDUCATION

Massachusetts Institute of Technology

Cambridge, MA

Bachelor of Science in Mathematics

Technical courses: Formal Reasoning about Programs, Theory of Probability, Topology, Measure Theory, Algebra I/II, Analysis, Deep Learning, Graph Theory and Additive Combinatorics, Social Choice and Networks, Algorithmist's Toolkit, Categorical Logic, Non-credit Category Theory and Topoi Reading Program, Distributed Algorithms

AWARDS

International Mathematical Olympiad (IMO)

2010 — 2014

- Historically best ranked Mexican competitor
- **Gold** Medal, 3 Silver Medals, Bronze Medal
- Seven times National Gold medalist

International Olympiad in Informatics (IOI)

2013 — 2014

- Historically best ranked Mexican competitor
- **Gold** Medal, Silver Medal
- Three times National Gold medalist

EXPERIENCE

EngineML

San Francisco, California

Software Engineer

Fall 2018

- EngineML is does distributed systems for Deep Learning. Coding in a Haskell codebase.

Bridgewater Associates

Westport, Connecticut

Investment Associate Intern

Summer 2018

- Investment Associate in Disruption Lab.

Tudor Investment Corporation

New York, New York

Quant Intern

Summer 2017

- Researched machine learning algorithms on financial databases in order to predict asset returns, which were integrated into the overall trading strategy.

Poggio Lab at Center for Brains Minds and Machines

Cambridge, MA

Undergraduate Researcher

February 2018 — Present

- Developing an Artificial Intelligence system capable of doing mathematics.

MIT Programming Languages and Verification Group

Cambridge, MA

Undergraduate Researcher

September 2017 — Present

- Implementing concurrent semantics for RISC-V in Haskell.

Kueski

Guadalajara, Mexico

Software Engineer

2015 — 2015

- Worked in the backend of Kueski, an online lending startup

Centre for High Academic Achievement

Monterrey, Mexico

Software Engineer Volunteer

2015 — 2016

- Developed an admission system (written in Purescript and Haskell) with statistical methods to evaluate student performance, such as IRT.

Mexican Computing Olympiad Committee

Mexico

Problem Setter and Training Program Organizer

2015 — 2016

- Wrote part of the tests used to select the Mexican team for the IOI 2015 and 2016, as well as helping with the organization of the selection process.

IQ+

Monterrey, Mexico

Board Member

2016 — Present

- IQ+ is an educational nonprofit specialized on gifted youth.

Tutor

2014 — 2016

- Tutored three students that went to international olympiads. One student got a bronze at IOI, and the other two got silver at IMO.

SKILLS

Programming Languages: Haskell, Coq, Purescript, Elm, C/C++, Python, Ruby, Javascript, Julia
Languages: Spanish (Native), English (Full Professional), Chinese (Beginner)