

# DIEGO ROQUE

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## EDUCATION

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### Massachusetts Institute of Technology

Cambridge, MA

BSc Mathematics

Relevant courses: Formal Reasoning about Programs, Topology, Measure Theory, Algebra, Analysis, Deep Learning, Fundamentals of Program Analysis, Advanced Data Structures, Modern Numerical Computing with Julia, Graph Theory and Additive Combinatorics

## AWARDS

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### International Olympiad in Informatics (IOI)

- Historically best ranked Mexican competitor
- **Gold** Medal, Silver Medal and first Mexican gold medalist

### International Mathematical Olympiad (IMO)

- Historically best ranked Mexican competitor
- **Gold** Medal, 3 Silver Medals, and Bronze Medal.

## EXPERIENCE

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### Tudor Investment Corporation

New York, New York

*Quant Intern*

Summer 2017

### MIT Programming Languages and Verification Group

Cambridge, MA

*Undergraduate Researcher*

Fall 2017

### Kueski

Guadalajara, Mexico

*Software Engineer*

2015 — 2015

### 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 City, Mexico

*Teacher*

December 2015

- Taught an algorithms course for teachers to further their skills and be better at teaching their students.

### 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.

### Nuevo Leon Mathematics Olympiad

Monterrey, Mexico

*Teacher*

2011 — 2014

- Taught mathematics classes geared towards Olympiads for the State organization that was in charge of Olympiads

## SKILLS

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