

Diego Roque

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Education

Fall 2014, **BSc on Mathematics**, *Massachusetts Institute of Technology*, Cambridge.
2016–2020

Experience

2015–2016 **Software Engineer Volunteer**, *Centre for High Academic Achievement (CARA)*, Monterrey, Mexico.

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

2015–2015 **Software Engineer**, *Kueski*, Guadalajara, Mexico.

December **Teacher**, *COMI*, Mexico City, Mexico.

2015 I taught an algorithms course for teachers to further their skills and be better at teaching their students.

2015–2016 **Problem Setter and Training Program Organizer**, *Mexican Computing Olympiad Committee (COMI)*, Mexico.

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.

2011–2014 **Teacher**, *Nuevo Leon Mathematics Olympiad*, Monterrey, Nuevo Leon.

I taught mathematics classes geared towards Olympiads for the State organization that was in charge of Olympiads

Awards

International Olympiads

International Olympiad in Informatics (IOI).

- Historically best ranked Mexican competitor
- **Gold** Medal and first Mexican to get Gold, 26th IOI, Taiwan, July 2014
- Silver Medal, 25th IOI, Australia, July 2013

International Mathematical Olympiad (IMO).

- Historically best ranked Mexican competitor
- **Gold** Medal, 53th IMO, Argentina, July 2012
- Silver Medal, 55th IMO, South Africa, July 2014
- Silver Medal, 54th IMO, Colombia, July 2013
- Silver Medal, 52th IMO, Netherlands, July 2011
- Bronze Medal and youngest Mexican participant ever, 51th IMO, Kazakhstan, July 2010

Asian Pacific Mathematics Olympiad (APMO).

- **Gold** Medal, 25th APMO, evaluated in Kazakhstan, March 2013
- Silver Medal, 26th APMO, evaluated in Kazakhstan, March 2014
- Silver Medal, 24th APMO, evaluated in Japan, March 2012

Iberoamerican Informatics Competence by Correspondence (CIIC in Spanish).

- **Gold** Medal, May 2014
- Bronze Medal, May 2013

Iberoamerican Mathematics Olympiad .

- **Gold** Medal, 24th edition, Costa Rica, September 2011

Centroamerican and Caribbean Mathematics Olympiad (OMCC in spanish).

- **Gold** Medal, 12th OMCC, Puerto Rico, June 2010
- Creative Solution Recognition, 12th OMCC, Puerto Rico, June 2010
- Silver Medal, 11th OMCC, Colombia, October 2009

May Mathematics Olympiad.

- **Gold** Medal, 16th edition, May 2010
- **Gold** Medal, 15th edition May 2009

Rioplátense Mathematics Olympiad.

- **Gold** Medal, 18th edition, Argentina May 2009
- **Gold** Medal, 18th edition, Argentina May 2008

National Olympiads**Mexican Mathematics Olympiad (OMM).**

- Historically best ranked competitor
- **Gold** Medal with **Perfect** Score, 27th OMM, Hidalgo, November 2013
- **Gold** Medal, 26th OMM, Guanajuato, November 2012
- **Gold** Medal, 25th OMM, San Luis Potosi, November 2011
- **Gold** Medal with **Perfect** Score, 24th OMM, Baja California, November 2010
- **Gold** Medal with **Perfect** Score, 23th OMM, Campeche, November 2009
- Silver Medal, 22th OMM, Sonora, November 2008
- Bronze Medal, 21th OMM, Coahuila, November 2007

Mexican Computing Olympiad (OMI).

- **Gold** Medal, 18th OMI, Mexico State, April 2013
- **Gold** Medal, 17th OMI, Sonora, August 2012
- **Gold** Medal, 15th OMI, Yucatan, September 2010

National Contests for Young Physics Talents.

- **Gold** Medal, 7th edition, June 2011
- **Gold** Medal, 6th edition, June 2010

Other Distinctions**Medalla al Mérito Cívico Presea Estado de Nuevo León 2012.**

Civic Merit Medal, Nuevo Leon State 2012

Recognition from National Council of Science and Technology and Mexican Mathematics Society for my results in olympiads.**Medalla al Mérito Juventud Regia 2010.**

Youth Merit Medal, Monterrey 2010

Twelve Recognitions from Nuevo Leon Education Department for my results in olympiads.

Two recognitions from IQ+ for my results in olympiads., IQ+ is an education nonprofit specialized on gifted youth.

Languages

Spanish **Native**

English **Professional**

TOEFL 650+

Computer skills

C/C++ 8 Years

Algorithms 6 years

Haskell 4 years

Purescript 1 year

Python 2 years

Ruby 2 years

Javascript 1 year

Elm 1 year

References

<https://www.dropbox.com/sh/ajao00t66k0cu2o/AACF7wqe85H1X9VDZrQQGHsva?dl=0>
Recognitions and Diplomas