

Marcel de Sena Dall'Agnol

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Education

IMPA (National Institute for Pure and Applied Mathematics)

M.Sc. IN MATHEMATICS

Areas of specialization: Algebra and Probability

Rio de Janeiro, Brazil

Mar. 2017 - Feb. 2019 (underway)

USP (University of São Paulo)

B.S. IN MECHATRONICS ENGINEERING (WITH CERTIFICATE OF EMPHASIS IN COMPUTER SCIENCE)

São Carlos, Brazil

Jan. 2009 - Dec. 2014

UCSD (University of California, San Diego)

UNDERGRADUATE EXCHANGE PROGRAM IN COMPUTER SCIENCE

San Diego, USA

Jan. 2012 - Dec. 2012

Research Interests

Theoretical Computer Science, mainly three areas and their intersections: Complexity Theory, Cryptography and Quantum Computing.

Experience

Projeto Âncora

EDUCATOR

Cotia, Brazil

Aug. 2014 - Dec. 2016

- Tutored groups of students in primary education with personalized learning;
- Oriented student projects and work groups, from computer maintenance and informatics to bullying and harassment or culinary studies;
- Assisted in the development of a web platform for documentation and sharing of students' and educators' work;
- Oriented study groups in mathematics;
- Gave talks and courses on the school's pedagogical approach.

USP

TEACHING ASSISTANT

São Carlos, Brazil

Feb. 2013 - Nov. 2013

Assisted first-year undergraduate students in two semester-long courses: Analytic Geometry and Linear Algebra.

Robotics Institute - Carnegie Mellon University

INTERN

Pittsburgh, USA

Jun. 2012 - Sep. 2012

Developed and deployed a web service for precision enhancement of GPS data collected by an autonomous vehicle.

CNPq (National Council for Scientific and Technological Development)

SCIENTIFIC INITIATION

São Carlos, Brazil

Aug. 2010 - Jul. 2011

Designed, built and installed a temperature monitor for a Cesium atomic clock.

Talks and Publications

CryptoRave 2018

SPEAKER

São Paulo, Brazil

May 2018

The Mathematical Beauty of Cryptography

CHI 2013

POSTER PRESENTER

Paris, France

Apr. 2013

MotionDraw: A Tool for Enhancing Art and Performance Using Kinect

SIICUSP 19

POSTER PRESENTER

São Carlos, Brazil

Nov. 2011

Temperature Monitoring System for an Atomic Clock

Conferences/Events Attended

CIMPA Research School: *Elliptic Curves: Arithmetic and Computation*

Montevideo, Uruguay

Feb. 2019 (upcoming)

International Congress of Mathematicians

Rio de Janeiro, Brazil

Aug. 2018

Latin American Week on Coding and Information

Rio de Janeiro, Brazil

Jul. 2018

30th and 31st Brazilian Colloquium of Mathematics

Rio de Janeiro, Brazil

Jul. 2015 and Jul. 2017

Skills

Languages Portuguese and English (fluent), Spanish (intermediate), German (basic)

Programming Python, C/C++, Ruby/Rails, Matlab/Octave, LaTeX

Extracurricular and Volunteer Work

Intenational Congress of Mathematicians

Rio de Janeiro, Brazil

STAFF

Aug. 2018

Served as attaché to the Chern Medal prize winner.

Coursera, Khan Academy, ProtonMail

May 2014 - Oct. 2017

TRANSLATOR

Translated and proofread subtitles for Coursera's "Machine Learning", "Cryptography I" and "Cybersecurity and its Ten Domains" courses, Khan Academy's Calculus module and ProtonMail's web service and mobile application (75,000 words in total).

Honors and Qualifications

2019 **Travel funding for upcoming research school**, IMPA and CIMPA

2017 **Master's scholarship**, CNPq

2016 **Licentiate in Mathematics**, Certification to teach at primary and secondary levels (by Claretiano)

2012 **Undergraduate exchange scholarship**, Brazil's "Science Without Borders" program

2007 **CPE (Cambridge English: Proficiency)**, English CEFR Level C2