Marcel de Sena Dall'Agnol

Education

University of Warwick Coventry, UK

PHD IN COMPUTER SCIENCE Oct. 2019 - Jan. 2024 (ongoing)

Instituto Nacional de Matemática Pura e Aplicada (IMPA)

Master's in Mathematics Mar. 2017 - Feb. 2019

University of California, San Diego (UCSD)

Undergraduate exchange program in Computer Science Jan. 2012 - Dec. 2012

Universidade de São Paulo (USP)

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

Jan. 2009 - Dec. 2014

Research Interests_

Algorithms and complexity, coding theory and quantum computation.

Internships _____

Robotics Institute - Carnegie Mellon University

Pittsburgh, USA

SUMMER INTERNSHIP

Jun. 2012 - Sep. 2012

Rio de Janeiro, Brazil

San Diego, USA

São Carlos, Brazil

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

Physics Institute - Universidade de São Paulo

São Carlos, Brazi

SCIENTIFIC INITIATION

Aug. 2010 - Jul. 2011

Designed, built and installed a temperature monitor for a Cesium atomic clock. Supported by a scholarship from CNPq.

Teaching

University of Warwick

Coventry, UK

ASSISTANT TUTOR

Oct. 2019 - present

Taught seminar sessions, marked exercises/exams and assisted students individually in the following modules: *Algorithms* (2020), *Complexity of Algorithms* (2019, 2020), *Logic and Verification* (2020) and *Quantum Computing* (2020).

IMPA Rio de Janeiro, Brazil

TEACHING ASSISTANT Mar. 2019 - Jun. 2019

Assisted first-year master's students in the course Algebra I.

Projeto Âncora Cotia, Brazil

EDUCATOR Aug. 2014 - Dec. 2016

- Tutored groups of students in primary education with personalized learning;
- Oriented student projects and work groups on a variety of topics, including computer maintenance and informatics, bullying and harassment
 prevention and culinary studies;
- · Assisted in the development of a web platform used to share and catalog students' and educators' work;
- Oriented study groups in mathematics;
- Gave talks and courses on the school's pedagogical approach.

Emancipa São Carlos, Brazil

TEACHER Apr. 2013 - Jul. 2014

Taught math and physics in a volunteer-run, free of cost preparation program for the Brazilian undergraduate admission exams.

USP São Carlos, Brazil

TEACHING ASSISTANT Feb. 2013 - Nov. 2013

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

Publications.

SODA 2021 Virtual

A Structural Theorem for Local Algorithms with Applications to Coding, Testing, and Privacy (with Tom Gur and Oded Lachish)

CHI 2013 Paris, France

MotionDraw: A Tool for Enhancing Art and Performance Using Kinect (with D. G. Rodrigues, E. Grenader, F. Nos, T. Hansen and N. Weibel)

SIICUSP 19 São Carlos, Brazil

Temperature Monitoring System for an Atomic Clock (with Daniel V. Magalhães)

2011

Talks

WPPCS 2019

WOLA 2020 Virtual

A structural theorem for local algorithms with applications to coding, testing, and delegation

Coventry, UK

Sunflowers, daisies and local codes

Dec. 2019

Jul. 2020

May 2019

IMPA ColloquiumA crash course on the theory of computation

Rio de Janeiro, Brazil

Trefast course on the theory of compatation

São Paulo, Brazil

The mathematical beauty of cryptography

May 2018

Paper reviews_

CryptoRave 2018

IEEE Transactions on Information Theory (2020), ITCS (2020, 2021).

Honours and Qualifications _____

2019 Centre for Doctoral Training postgraduate studentship, University of Warwick

2013 OnDaF, German CEFR Level B1

2007 **CPE**, English CEFR Level C2

Conferences/Events Attended _____

CCC Virtual

Jul. 2020

STOC Virtual
Jul. 2020

AlgoUK Coventry, UK

Sep. 2019

CIMPA Research School on Elliptic Curves: Arithmetic and Computation

Montevideo, Uruguay

Feb. 2019

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 Colloquia of MathematicsRio 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