Marcel **Dall'Agnol**

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Education

University of Warwick Coventry, UK

Ph.D. IN COMPUTER SCIENCE Oct. 2019 - Sep. 2023 (expected)

Instituto Nacional de Matemática Pura e Aplicada (IMPA)

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

Rio de Janeiro, Brazil

San Diego, USA

São Carlos, Brazil

Jul. 2021

Apr. 2013

Nov. 2011

Jul. 2022

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, interactive proofs and quantum computation.

Publications

TQC 2021 Virtual

Quantum proofs of proximity (with T. Gur, S. R. Moulik and J. Thaler)

SODA 2021 Virtual

A Structural Theorem for Local Algorithms with Applications to Coding, Testing, and Privacy (with T. Gur and O. 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 D. V. Magalhães)

Talks

HALG 2022 London, UK

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

NOLA 2020 Virtual

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

Jul. 2020

IMPA Colloquium

Rio de Janeiro, Brazil

A crash course on the theory of computation May 2019

CryptoRave 2018 São Paulo, Brazil

The mathematical beauty of cryptography

May 2018

Paper reviews_

IEEE Transactions on Information Theory (2020), CCC (2021), FOCS (2021, 2022), STOC (2021), ITCS (2020, 2021), RANDOM (2021).

Internships

COMPSEC Lab - EPFL Lausanne, Switzerland

VISITING DOCTORAL STUDENT Jul. 2022 - Sep. 2022

Took part in a research project on cryptographic applications of quantum computing.

Robotics Institute - Carnegie Mellon University

Pittsburgh, USA Jun. 2012 - Sep. 2012

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

Physics Institute - Universidade de São Paulo

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_

TEACHING ASSISTANT

MSRI Virtual

TEACHING ASSISTANT Jul. 2021 - Aug. 2021

Collaborated with the organisation and led problem sessions at the Summer Graduate School on Foundations and Frontiers of Probabilistic Proofs.

University of Warwick Coventry, UK

SENIOR GRADUATE TEACHING ASSISTANT

Oct. 2019 - present

Assisted with teaching and marking in the following undergraduate modules: Algorithms (2020, 2021), Complexity of Algorithms (2019, 2020, 2021), Logic and Verification (2020) and Quantum Computing (2020, 2021).

IMPA Rio de Janeiro, Brazil Mar. 2019 - Jun. 2019

Assisted with teaching and marking in the first-year master's 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

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

Feb. 2013 - Nov. 2013 TEACHING ASSISTANT

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

Honours and Awards

2021 Department of Computer Science undergraduate teaching award, University of Warwick

2019 Centre for Doctoral Training postgraduate studentship, University of Warwick

2019 CIMPA research school travel award, IMPA and CIMPA

2017 Master's scholarship, CNPq

2012 Science Without Borders undergraduate exchange scholarship, CAPES

Skills

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

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

Conferences/Events Attended

Workshop on Efficient Probabilistic Proofs

Bertinoro, Italy

Jul. 2022

BCTCS 2022 Swansea, UK

Apr. 2022

FOCS 2020 Virtual Nov. 2020

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CCC 2020 Virtual

Jul. 2020

STOC 2020 Virtual

Jul. 2020

AlgoUK 2019 Coventry, UK

Sep. 2019

CIMPA Research School on Elliptic Curves: Arithmetic and Computation

Montevideo, Uruguay

Feb. 2019

2018 International Congress of Mathematicians**Rio de Janeiro, Brazil

Aug. 2018

Latin American Week on Coding and Information Campinas, Brazil

Jul. 2018

30th and 31st Brazilian Colloquia of MathematicsRio de Janeiro, Brazil

Jul. 2015 and Jul. 2017

Additional Certificates/Qualifications

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

2013 **OnDaF**, German CEFR Level B1

2007 **CPE**, English CEFR Level C2