

João Pedro Gonçalves Ramos

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PERSONAL

Citizenship. Born in Rio de Janeiro, RJ, Brazil, on December 27, 1995.

Languages.

Portuguese: Mother Tongue.

English: Fluent – Certification available under request.

German: Fluent.

Spanish: Fluent.

French: Intermediate level.

Italian: Beginner Level.

EDUCATION

Bachelor Degree in Mathematics, Universidade Federal do Rio de Janeiro, 2015 - 2016

Final Project Advisor: Emanuel Carneiro (IMPA).

Project Title: Carleson's Theorem and its Relations with Time-Frequency Analysis.

Master of Sciences in Mathematics, Instituto de Matemática Pura e Aplicada, 2014 - 2016

Advisor: Claudio Landim

PhD. Student in Mathematics, Universität Bonn, 2016 –

Advisor: Christoph Thiele

(degree expected in 2020)

AWARDS, HONOURS AND SCHOLARSHIPS

DAAD (Deutscher Akademischer Austauschdienst) Scholarship, from 01-04-2017 to 31-03-2020.

Simons visitor, ICTP Trieste, from 01-11-2016 to 09-11-2016.

Nota 10 Scholarship, granted by Fundação de Amparo à Pesquisa do Estado do Rio de Janeiro (FAPERJ) to the two brightest students in the First Year of Master Degree course in IMPA - 2015.

Gulbenkian Foundation Scholarship, for the 2014 Summer School - 2014.

Brazilian Mathematical Olympiad, Bronze Medal - 2013.

Brazilian Mathematical Olympiad, Honourable Mention - 2012.

Brazilian Mathematical Olympiad for Public Schools, 5 Medals (3 Golds, 2 Silvers) - From 2008-2013

PROFESSIONAL EXPERIENCE

ATTENDED SEMINARS, CONFERENCES, COLLOQUIA AND WORKSHOPS

Summer School on Decoupling and Polynomial Methods in Analysis, Kopp, Germany, from 01-10-2017 to 06-10-2017.

Analysis and Applications: a conference in honour of Elias M. Stein, Wrocław, Poland, from 04-09-2017 to 08-09-2017.

Harmonic analysis and its interactions: in honour of Tony Carbery, Edinburgh, Scotland, from 17-07-2017 to 21-07-2017.

Recent Developments in Harmonic Analysis, Berkeley, CA, USA, from 15-05-2017 to 19-05-2017.

Recent developments in Analytic Number Theory, Berkeley, CA, USA, from 01-05-2017 to 05-05-2017.

Atelier d'Analyse Harmonique, Nantes, France, from 06-03-2017 to 10-03-2017.

Around Analysis, Domains and Mappings – Conference on the occasion of the 75th birthday of Olli Martio, Jyväskylä, Finland, from 15-12-2016 to 17-12-2016.

Young Women in Harmonic Analysis and PDEs, Bonn, Germany, from 02-12-2016 to 04-12-2016.

Research visit, Trieste, Italy, from 01-11-2016 to 09-11-2016.

Summer School on Paraproducts and Analysis of Rough Paths, Kopp, Germany, from 11-09-2016 to 16-09-2016.

Analysis and Beyond: Celebrating Jean Bourgain's Work and Impact, Princeton, NJ, USA, from 21-05-2016 to 24-05-2016.

Conference in Harmonic Analysis in Honor of Michael Christ, Madison, WI, USA, from 16-05-2016 to 20-05-2016.

First Joint Meeting Brazil-Spain in Mathematics, Fortaleza, Brazil, from 07-12-2015 to 11-12-2015.

Second Workshop on Combinatorics, Number Theory and Dynamical Systems, IMPA, Rio de Janeiro, Brazil, from 24-08-2015 to 28-08-2015.

International Conference on Current Trends in Analysis and PDEs, IMPA, Rio de Janeiro, Brazil, from 17-08-2015 to 21-08-2015.

30 Colóquio Brasileiro de Matemática, IMPA, Rio de Janeiro, Brazil, from 26-07-2015 to 31-07-2015.

International Workshop on Elliptic and Kinetic Partial Differential Equations, IMPA, Rio de Janeiro, Brazil, from 6-07-2015 to 17-07-2015.

International Conference in Number Theory and Physics, IMPA, Rio de Janeiro, Brazil, from 15-06-2015 to 26-06-2015.

Algebraic Geometry Summer School, Gulbenkian Foundation, Lisbon, Portugal, from 14-07-2014 to 18-07-2014.

First Workshop on Combinatorics, Number Theory and Dynamical Systems, IMPA, Rio de Janeiro, Brazil, from 19-08-2013 to 23-08-2013.

29 Colóquio Brasileiro de Matemática, IMPA, Rio de Janeiro, Brazil, from 21-07-2013 to 02-08-2013.

TALKS PRESENTED

Sharp total variation results for non-tangential maximal functions, Invited Speaker at Uni. Bonn's Graduate Seminar on Advanced Topics in PDE, 02-02-2018.

Fourier Multipliers, Local Smoothing and Regularising Properties of Fractional Maximal Functions, Invited Speaker at IMPA's Analysis and PDEs seminar, 09-01-2018.

On the Variation of the Hardy-Littlewood Maximal Function, Speaker at the Uni. Bonn Seminar on Regularity Properties of Maximal functions, Winter Semester 2017, 29-11-2017.

A Restriction Estimate Using Polynomial Partitioning, Invited Speaker at the Summer School on Decoupling and Polynomial Methods in Analysis, 05-10-2017.

New Facets of Uncertainty Principles in Fourier Analysis, Invited Speaker at the conference "Atelier d'Analyse Harmonique", upcoming.

Uncertainty Principles and the Last Zero of a Function, Invited Speaker on IMPA's Students Colloquium, 23-09-2016.

Inverting the Signature of a Path, part 2, Invited Speaker at the Summer School on Paraproducts and Analysis of Rough Paths, 15-09-2016.

Inverting the Signature of a Path, Invited Speaker at the Summer School on Paraproducts and Analysis of Rough Paths, 12-09-2016.

The Sharp Hausdorff-Young Inequality, Invited Speaker on Universität Bonn's Basic Notions Seminar, 22-06-2016.

Maximal Operators and Regularity of Functions: A Panorama, Invited Speaker on IMPA's Students Colloquium, 01-04-2016.

Maximal Operators Around Mathematics, Invited Speaker on IMPA's Students Colloquium, 04-09-2015.

Number of Visits on Random Walks, (with F. Severo) Invited Speaker on IMPA's Students Colloquium, 19-09-2014.

POSTERS PRESENTED

On the equivalence of root uncertainty principles, Conference for young women in harmonic analysis and PDEs, 02-12-2016 to 04-12-2016.

On the variation of some nontangential maximal functions, University of Bonn's annual poster exhibition, 30-06-2016 and 01-07-2016.

TEACHING AND ASSISTANCE EXPERIENCE

Notes taker, Fall Semester 2016
 Course: Real and Harmonic Analysis
 Masters program, Uni. Bonn
 Instructor: Prof. Dr. Christoph Thiele.

Teaching Assistant, Summer 2016
 Course: Introduction to Nonlinear Dispersive Equations
 PhD. program, IMPA
 Instructor: Prof. Dr. José Felipe Linares Ramirez.

PAPERS AND PREPRINTS

João Pedro Ramos, *Sharp total variation results for maximal functions*. Submitted.

Diogo Oliveira e Silva and João Pedro Ramos, *On the equivalence of some root uncertainty principles*. Preprint.

David Beltrán, João Pedro Ramos and Olli Saari, *On Fourier Multipliers related to the regularity of Fractional Maximal Operators*. Preprint.

INTERESTS

My main interests rely on Harmonic Analysis and its relations with affine areas, such as Dispersive Equations, Analytic Number Theory and Complex Analysis. Currently, I am a first year PhD student at Universität Bonn under the supervision of Professor Christoph Thiele.

Last Update: February 12, 2018