

## Carlos Andrés Chirre Chávez

---

CONTACT INFORMATION	IMPA - Instituto de Matemática Pura e Aplicada Estrada Dona Castorina 110, Rio de Janeiro, Brazil Contact: <a href="mailto:achirre@impa.br">achirre@impa.br</a> Cel: 55-21-994146564 Webmail: <a href="mailto:achirre.impa.br">achirre.impa.br</a>
PERSONAL	<b>Citizenship</b> Peruvian. Born in November 12, 1989.
RESEARCH INTERESTS	Analytic Number Theory, Harmonic Analysis and its applications to Approximation Theory.
EDUCATION	<b>Instituto de Matemática Pura e Aplicada (IMPA)</b> , Río de Janeiro, Brazil <b>Ph.D., Mathematics</b> , <i>Expected</i> : Summer 2019 <ul style="list-style-type: none"><li>• Advisor: Emanuel Carneiro, Ph.D</li></ul> <b>Instituto de Matemáticas y Ciencias Afines (IMCA)</b> , Lima, Perú <b>M.Sc., Mathematics</b> , November 2014 <ul style="list-style-type: none"><li>• Thesis: <i>About the real zeros of entire functions</i></li><li>• Advisor: Oswaldo Velásquez, Ph.D</li></ul> <b>Universidad Nacional de Ingeniería (UNI)</b> , Lima, Perú <b>B.S., Mathematics</b> , July 2012
RESEARCH EXPERIENCE	<b>Research Assistant</b> March 2018 (2 weeks) Mathematics, State University of São Paulo UNESP (São Paulo, Brazil) Supervisor: Dimitar Dimitrov, Ph.D <b>Research Assistant</b> October 2017 (2 weeks) Mathematics, State University of São Paulo UNESP (São Paulo, Brazil) Supervisor: Dimitar Dimitrov, Ph.D <b>Research Assistant</b> November 2016 Mathematics, ICTP (Trieste, Italy) Supervisor: Emanuel Carneiro, Ph.D <b>Research Assistant</b> July 2016 to August 2016 Mathematics, IMCA (Lima, Perú) Supervisor: Oswaldo Velásquez, Ph.D
SUBMITTED JOURNAL PUBLICATIONS	<ol style="list-style-type: none"><li>1. Emanuel Carneiro and Andrés Chirre: “Bounding <math>S_n(t)</math> on the Riemann hypothesis”. <i>Mathematical Proceedings of the Cambridge Philosophical Society</i>, vol. 164(2018), 259 – 283.</li><li>2. Emanuel Carneiro, Andrés Chirre and Micah B. Milinovich: “Bandlimited approximations and estimates for the Riemann zeta-function”. 2017. To appear in <i>Publicacions Matemàtiques</i>.</li><li>3. Andrés Chirre: “A note on entire <math>L</math>-functions”. To appear in <i>Bulletin of the Brazilian Mathematical Society</i>.</li></ol>

PAPERS IN  
PREPARATION

1. Andrés Chirre and Oswaldo Velásquez : “A new proof of Ki’s theorems about the zeros of approximations of the Ramanujan  $\Xi$ -function”.

GRANTS AND  
FELLOWSHIPS

- CNPq Fellowship. Summer 2011.
- M. Sc.: Awarded as excellence thesis (IMCA - UNI) - 2014.
- CNPq Ph. D. Fellowship. 2015 - 2017.
- Faperj “Doutorado Nota 10” Fellowship for Excellent Students. 2017-2019  
Advisor: Emanuel Carneiro

CONGRESSES AND  
CONFERENCES

Presentation

- Poster Presentation, ICM 2018 Satellite Conference in Harmonic Analysis - Porto Alegre, Brazil (upcoming)
- Minicourse: Método de Beurling - Selberg: Aplicações na Teoria de Números, UFRGS, Porto Alegre, Brazil, March 2018.
- Seminar of analysis and PDE: The logarithm of the Riemann zeta function and entire  $L$ -functions, IMPA, Brazil, October 2017.
- Bounding  $S_n(t)$  on the Riemann hypothesis: XXXI Brazilian Colloquium of Mathematics, IMPA, Brazil, July 2017
- Poster Presentation, Connections for Women: Analytic Number Theory, Mathematical Sciences Research Institute (MSRI), Berkeley, California, USA, February 2017
- Bounding  $S_n(t)$  on the Riemann hypothesis: II Congresso Brasileiro de Jovens Pesquisadores em Matemática Pura e Aplicada, Special Session in Approximation Theory, Campinas, Brazil, December 2016
- Seminar: Bounding  $S_n(t)$  on the Riemann hypothesis, IMCA, Perú, August 2016

Participation

- ICM 2018 Satellite Conference in Harmonic Analysis - Porto Alegre, Brazil (upcoming)
- AGRA III 2018, Aritmética, Grupos y Análisis III - Córdoba, Argentina, July 2018
- CIMPA 2017 Research School - IX Escuela SANTALÓ, Harmonic Analysis, Geometric Measure Theory and Applications, Buenos Aire, Argentina, August 2017
- XXXI Brazilian Colloquium of Mathematics, IMPA, Brazil, July 2017.
- Recent Developments in Harmonic Analysis, Mathematical Sciences Research Institute (MSRI), Berkeley, California, USA, May 2017
- Recent Developments in Analytic Number Theory, Mathematical Sciences Research Institute (MSRI), Berkeley, California, USA, May 2017
- Introductory Workshop: Analytic Number Theory, Mathematical Sciences Research Institute (MSRI), Berkeley, California, USA, February 2017
- Connections for Women: Analytic Number Theory, Mathematical Sciences Research Institute (MSRI), Berkeley, California, USA, February 2017
- International Conference on Current Trends in Analysis and PDEs, IMPA, Brazil, August 2015
- International Workshop on Elliptic and Kinetic PDEs, IMPA, Brazil, July 2015
- XXX Brazilian Colloquium of Mathematics, IMPA, Brazil, July 2015
- International Conference in Number Theory and Physics, IMPA, Brazil, July 2015
- School in Computational Algebra and Number Theory, ICTP, Uruguay, December 2014
- X Seminar International of Optimization and Related Areas, IMCA, Perú, 2011
- Peruvian Colloquium of Mathematics, PUCP-Perú, 2010

TEACHING  
EXPERIENCE

Teaching Assistant

Summer 2018

Analytic Number Theory  
 Instructor: Emanuel Carneiro, Ph.D  
 Instituto de Matemática Pura e Aplicada (IMPA)  
 Teaching 2014  
 Logic Mathematic  
 Departament of Economic,  
 Universidad Peruana de Ciencias Aplicadas  
 Teaching 2014  
 Mathematics for economists  
 Departament of Economic,  
 Universidad Peruana de Ciencias Aplicadas  
 Teaching Assistant 2013-2014  
 Mathematics II  
 Instructor: Yboon García, Ph.D  
 Departament of Economic,  
 Universidad del Pacífico, Lima, Perú

REFERENCES

Emanuel Carneiro  
 Professor of Mathematics at IMPA E-mail: carneiro@impa.br  
 Oswaldo Velásquez  
 Professor of Mathematics at IMCA E-mail: oswaldo@imca.edu.pe