

## Carlos Andrés Chirre Chávez

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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> Webpage: <a href="http://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 Approximation Theory.
EDUCATION	<b>Instituto de Matemática Pura e Aplicada (IMPA)</b> , Rio de Janeiro, Brazil <b>Ph.D., Mathematics</b> , <i>Expected</i> : February 2019 <ul style="list-style-type: none"><li>• Advisor: Emanuel Carneiro</li></ul> <b>Instituto de Matemáticas y Ciencias Afines (IMCA)</b> , Lima, Peru <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</li></ul> <b>Universidad Nacional de Ingeniería (UNI)</b> , Lima, Peru <b>B.S., Mathematics</b> , July 2012
VISITING SCHOLAR	<b>University of Mississippi (Mississippi, USA)</b> Fall 2018 Department of Mathematics, Supervisor: Micah B. Milinovich
PUBLICATIONS AND PREPRINTS	<ol style="list-style-type: none"><li>1. <i>Bounding <math>S_n(t)</math> on the Riemann hypothesis</i> (with E. Carneiro), Math. Proc. Camb. Philos. Soc. 164 (2018), 259–283.</li><li>2. <i>Bandlimited approximations and estimates for the Riemann zeta-function</i> (with E. Carneiro and M. B. Milinovich), Publ. Mat., to appear.</li><li>3. <i>A note on Entire <math>L</math>-functions</i>, Bull. Braz. Math. Soc., to appear.</li><li>4. <i>Extreme values for <math>S_n(\sigma, t)</math> near the critical line</i>, J. Number Theory, to appear.</li><li>5. <i>Pair correlation estimates for the zeros of the zeta-function via semidefinite programming</i> (with F. Gonçalves and D. de Laat), Preprint arXiv:1810.08843.</li><li>6. <i>Variance of prime numbers in short intervals</i> (with E. Carneiro, V. Chandee and M. B. Milinovich), under preparation.</li></ol>
GRANTS AND FELLOWSHIPS	2011 CNPq Fellowship (Summer). 2014 M. Sc.: Awarded as excellence thesis (IMCA - UNI). 2015 - 2017 CNPq Ph. D. Fellowship. 2017 - 2019 Faperj “Doutorado Nota 10” Fellowship for Excellent Students. Advisor: Emanuel Carneiro.

INVITED RESEARCH VISITS

UNESP - State University of São Paulo (São Paulo, Brazil)      March 2018 (2 weeks)  
 Department of Mathematics,  
 Supervisor: Dimitar Dimitrov

UNESP - State University of São Paulo (São Paulo, Brazil)      October 2017 (2 weeks)  
 Department of Mathematics,  
 Supervisor: Dimitar Dimitrov

ICTP - International Centre for Theoretical Physics (Trieste, Italy)      November 2016  
 Mathematics Section,  
 Supervisor: Emanuel Carneiro

IMCA - Instituto de Matemáticas y Ciencias Afines (Lima, Peru)      July 2016  
 Department of Mathematics,  
 Supervisor: Oswaldo Velásquez

INVITED TALKS

2018 Peruvian Colloquium of Mathematics, IMCA, Peru.  
 2018 Analysis Seminar Caltech/UCLA - California, USA.  
 2018 Analytic Number Theory Seminar, Stanford University - California, USA.  
 2018 Number Theory Seminar, University of Mississippi, USA.  
 2018 Minicourse in Approximation Theory with Applications in Number Theory, UFRGS - Porto Alegre, Brazil.  
 2017 Analysis and Differential Partial Equations Seminar, IMPA, Brazil.  
 2017 Harmonic Analysis Session, XXXI Brazilian Colloquium of Mathematics - Rio de Janeiro, Brazil.  
 2016 Approximation Theory Session, II Congresso Brasileiro de Jovens Pesquisadores em Matemática Pura e Aplicada - Campinas, Brazil.  
 2016 Number Theory Seminar, IMCA, Peru.

PARTICIPATION IN CONGRESSES AND CONFERENCES

2018 International Congress of Mathematicians (ICM) - Rio de Janeiro, Brazil.  
 2018 ICM Satellite Conference in Harmonic Analysis (Poster Presentation) - Porto Alegre, Brazil.  
 2018 AGRA III, Aritmética, Grupos y Análisis III - Córdoba, Argentina.  
 2017 CIMPA Research School - IX Escuela Santaló - Harmonic Analysis, Geometric Measure Theory and Applications - Buenos Aires, Argentina.  
 2017 Recent Developments in Harmonic Analysis, MSRI - California, USA.  
 2017 Recent Developments in Analytic Number Theory, MSRI - California, USA.  
 2017 Introductory Workshop: Analytic Number Theory, MSRI - California, USA.  
 2017 Connections for Women: Analytic Number Theory (Poster Presentation), MSRI, California, USA.  
 2015 International Conference on Current Trends in Analysis and PDEs, IMPA, Brazil.  
 2015 International Workshop on Elliptic and Kinetic PDEs, IMPA, Brazil.  
 2015 XXX Brazilian Colloquium of Mathematics - Rio de Janeiro, Brazil.  
 2015 International Conference in Number Theory and Physics, IMPA, Brazil.  
 2014 School in Computational Algebra and Number Theory (ICTP) - Montevideo, Uruguay.

TEACHING EXPERIENCE

Teaching Assistant      Summer 2018  
 Analytic Number Theory  
 Instructor: Emanuel Carneiro  
 Instituto de Matemática Pura e Aplicada (IMPA)

Teaching      2014  
 Mathematical Logic  
 Department of Economic,

Universidad Peruana de Ciencias Aplicadas (UPC) Teaching Mathematics for economists Departament of Economic, Universidad Peruana de Ciencias Aplicadas (UPC)	2014
Teaching Assistant Mathematics I Instructor: Javier Zuñiga Departament of Economic, Universidad del Pacífico (UP)	2013-2014
Teaching Assistant Mathematics II Instructor: Yboon García Departament of Economic, Universidad del Pacífico (UP)	2013-2014

REFERENCES

Professor Emanuel Carneiro  
 ICTP - The Abdus Salam International Centre for Theoretical Physics  
 Mathematics Section  
 IMPA - Instituto de Matemática Pura e Aplicada  
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Professor Micah B. Milinovich  
 University of Mississippi  
 Department of Mathematics  
 mbmilino@olemiss.edu

Professor Dimitar Dimitrov  
 UNESP - State University of São Paulo  
 Department of Mathematics  
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Professor Carlos Gustavo Moreira  
 IMPA - Instituto de Matemática Pura e Aplicada  
 Department of Mathematics  
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