

Carlos Andrés Chirre Chávez

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| CONTACT INFORMATION | NTNU - Norwegian University of Science and Technology O.S. Bragstads Plass 2E, 7034 Trondheim, Norway Contact: carlos.a.c.chavez@ntnu.no Webpage: https://sites.google.com/view/andreschirre/home www.ntnu.no/ansatte/carlos.a.c.chavez |
| PERSONAL | Citizenship Peruvian. Born in November 12, 1989. |
| RESEARCH INTERESTS | Analytic Number Theory, Harmonic Analysis and Approximation Theory. |
| EDUCATION | Norwegian University of Science and Technology (NTNU) , Trondheim, Norway Postdoctoral Position , September 2019 - 2021 <ul style="list-style-type: none">Supervisor: Kristian Seip Instituto de Matemática Pura e Aplicada (IMPA) , Rio de Janeiro, Brazil Ph.D., Mathematics , February 2019 <ul style="list-style-type: none">Thesis: <i>Bounds for the Riemann zeta-function via Fourier analysis</i>Advisor: Emanuel Carneiro Instituto de Matemáticas y Ciencias Afines (IMCA) , Lima, Peru M.Sc., Mathematics , November 2014 <ul style="list-style-type: none">Thesis: <i>About the real zeros of entire functions</i>Advisor: Oswaldo Velásquez Universidad Nacional de Ingeniería (UNI) , Lima, Peru B.S., Mathematics , July 2012 |
| VISITING SCHOLAR | Instituto de Matemáticas y Ciencias Afines (IMCA) Spring 2019 Department of Mathematics University of Mississippi (Mississippi, USA) Fall 2018 Department of Mathematics, Supervisor: Micah B. Milinovich |
| PUBLICATIONS AND PREPRINTS | <ol style="list-style-type: none"><i>Bounding $S_n(t)$ on the Riemann hypothesis</i> (with E. Carneiro), Math. Proc. Camb. Philos. Soc. 164 (2018), 259–283.<i>Bandlimited approximations and estimates for the Riemann zeta-function</i> (with E. Carneiro and M. B. Milinovich), Publ. Mat. 63 (2019), no. 2, 601–661.<i>A note on Entire L-functions</i>, Bull. Braz. Math. Soc. (N.S.) 50 (2019), no.1, 67–93.<i>Extreme values for $S_n(\sigma, t)$ near the critical line</i>, J. Number Theory 200 (2019), 329–352. |

5. *Pair correlation estimates for the zeros of the zeta function via semidefinite programming* (with F. Gonçalves and D. de Laat), Adv. Math. 361 (2020), 22 pp.
6. *Large oscillations of the argument of the Riemann zeta-function* (with K. Mahatab), pre-print.
7. *A note on the zeros of approximations of the Ramanujan Ξ -function* (with O. Velásquez), pre-print.
8. *Primes in arithmetic progressions and semidefinite programming* (with V. Pereira and D. de Laat), pre-print.
9. *Optimality for the two-parameter quadratic sieve* (with E. Carneiro, H. Helfgott and J. Mejía-Cordero), pre-print.
10. *Large values of the argument of the Riemann-zeta function and its iterates* (with K. Mahatab), pre-print.
11. *The second moment of $S_n(t)$ on the Riemann hypothesis* (with O. E. Quesada-Herrera), pre-print.

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| GRANTS AND FELLOWSHIPS | 2020 | IMPA Best Thesis Prize, 2020. |
| | 2017 - 2019 | Faperj “Doutorado Nota 10” Fellowship for Excellent Students. Advisor: Emanuel Carneiro. |
| | 2015 - 2017 | CNPq Ph. D. Fellowship. |
| | 2014 | M. Sc.: Awarded as excellence thesis (IMCA - UNI). |
| | 2011 | CNPq Fellowship (Summer). |

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| INVITED RESEARCH VISITS | MPIM - Max Planck Institute for Mathematics (Germany) | October 2019 (1 week) |
| | Supervisor: Harald Helfgott | |
| | UNESP - State University of São Paulo (São Paulo, Brazil) | July 2019 |
| | Department of Mathematics, Supervisor: Dimitar Dimitrov | |
| | 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 | | |

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| INVITED TALKS | 2019 | Analysis Seminar, NTNU - Trondheim, Norway. |
| | 2019 | Number Theory Seminar, MPIM - Bonn, Germany. |
| | 2019 | Harmonic Analysis Session, XXXII Brazilian Colloquium of Mathematics - Rio de Janeiro, Brazil. |
| | 2018 | Peruvian Colloquium of Mathematics, IMCA, Peru. |
| | 2018 | Analysis Seminar Caltech/UCLA - California, USA. |
| | 2018 | Analytic Number Theory Seminar, Stanford University - California, USA. |

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| | 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 | 2019 | Number Theory in the Americas - Oaxaca, Mexico. | |
| | 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 | | 2019-I |
| | Nivelation in Mathematics | | |
| | Departament of Economic, | | |
| | Universidad del Pacífico (UP) | | |
| | Teaching Assistant | | Summer 2018 |
| | Analytic Number Theory | | |
| | Instructor: Emanuel Carneiro | | |
| | Instituto de Matemática Pura e Aplicada (IMPA) | | |
| | Teaching | | 2014 |
| | Mathematical Logic | | |
| | Departament of Economic, | | |
| | Universidad Peruana de Ciencias Aplicadas (UPC) | | |
| | Teaching | | 2014 |
| | Mathematics for economists | | |
| | Departament of Economic, | | |
| | Universidad Peruana de Ciencias Aplicadas (UPC) | | |
| | Teaching Assistant | | 2013-2014 |
| | Mathematics I | | |
| | Instructor: Javier Zuñiga | | |
| | Departament of Economic, | | |
| | Universidad del Pacífico (UP) | | |
| | Teaching Assistant | | 2013-2014 |
| | Mathematics II | | |

Instructor: Yboon García
Departament of Economic,
Universidad del Pacífico (UP)

REFERENCES

Professor Emanuel Carneiro
ICTP - The Abdus Salam International Centre for Theoretical Physics
Mathematics Section
IMPA - Instituto de Matemática Pura e Aplicada
`carneiro@impa.br`

Professor Micah B. Milinovich
University of Mississippi
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`mbmilino@olemiss.edu`

Professor Dimitar Dimitrov
UNESP - State University of São Paulo
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`dimitar.k.dimitrov@unesp.br`

Professor Carlos Gustavo Moreira
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