

## Contact Information

Wesleyan University  
Department of Mathematics & Computer Science  
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## Education

Ph.D. student in Mathematics, Wesleyan University, August 2015 – present.  
Advisor: Felipe A. Ramírez.

B.A. in Mathematics, B.A. in Computer Science, Manhattan College, August 2011 – May 2015.

## Publications

(joint w. A. Calderon) *How to hear the shape of a billiard table*, (preprint)

(joint w. H. Tyler) *Measurement and comparison of passing networks in collegiate soccer*,  
Minnesota Journal of Undergraduate Mathematics, [S.l.], v. 1, n. 1, Dec. 2015.

## Talks

*A Dynamical View of Numbers*, Undergraduate Colloquium, University of Hartford, February 2019.

*A connection between badly approximable numbers and continued fractions*, Graduate Student Seminar, Wesleyan University, October 2018.

*Continued Fractions and Geodesics on the Modular Surface*, Strength in Numbers, Queen's University, Canada, May 2018.

*Dani's Correspondence and Schmidt Games*, Topology et al. Seminar, Wesleyan University, March 2018.

*Shedding light on Illumination*, Graduate Student Seminar, Wesleyan University, September 2017.

*A brief glance at Ergodic Theory*, Graduate Student Seminar, Wesleyan University, February 2017.

*A look at the \$25,000,000,000 eigenvector*, Graduate Student Seminar, Wesleyan University, October 2016.

*Defensive Forwards and Offensive Backs: The 2013 Season of Manhattan College Women's Soccer*, Joint Mathematics Meetings, San Antonio, January 2015.

## Conferences Attended

*Houston Summer School on Dynamical Systems*, University of Houston, May 2018.

*Strength in Numbers*, Queen's University, Kingston, Canada, May 2018.

*Upstate New York Number Theory Conference*, University of Buffalo, April 2018.

*Workshop on Dynamical Systems and Related Topics*, University of Maryland, April 2018.

*Graduate Student Conference in Algebra, Geometry, and Topology*, Temple University, June 2017.

*Upstate New York Number Theory Conference*, Binghamton University, May 2017.

*Joint Mathematics Meetings*, Atlanta, GA, January 2017.

*Joint Mathematics Meetings*, San Antonio, TX, January 2015.

## Teaching Experience

*Instructor*, Wesleyan University.

Sole instructor during meeting hours with course materials created in conjunction with fellow instructors and faculty mentor for the following:

- Elements of Calculus, Part I, Fall 2018
- Introductory Calculus II, Fall 2017
- Introductory Calculus I, Spring 2017

*Graduate Teaching Assistant*, Wesleyan University.

- Real Analysis, Spring 2018  
I held office hours and wrote homework solutions.
- Discrete Structures, Fall 2016  
I held office hours as well as graded homeworks and proofs.
- Math Workshop, Spring 2016  
I helped students understand lecture notes and homework assignments for varying math classes including: Abstract Algebra, Linear Algebra, Multivariable Calculus, and Probability.
- Introduction to Programming, Fall 2015

## Mentoring

- Directed Reading Program, Wesleyan University  
More information available on our website (<https://drp.site.wesleyan.edu/>).
  - An Introduction to Ergodic Theory, Spring 2019
  - Continued Fractions and Approximability, Fall 2018

## Services

*Webmaster*, Graduate Student Association (GSA), Wesleyan University, May 2017 – present.

*Graduate Community Standards Board member*, GSA, Wesleyan University, May 2017 – 2018.

*President*, AMS Local Chapter, Wesleyan University, August 2016 – present.

## Computing Skills

*Programming Languages*: C, C++, Java, Javascript, PHP, Python.

*Other*: LaTeX, HTML5, CSS3, Markdown, SQL, NodeJS, MS Office, Maple, Linux, Windows, git, GitHub.