

Vanessa Matus de la Parra (she/her)
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Education

- Since 2018 | **Ph.D. in Mathematics**, *University of Rochester*, NY, USA (Defense expected on May 2024).
2018–2020 | **Masters in Mathematics**, *University of Rochester*, NY, USA.
2014–2017 | **Bachelor's degree in Pure Mathematics**, *Pontificia Universidad Católica de Valparaíso*, Chile.

Research Interests

Dynamics of Holomorphic Correspondences, Ergodic Theory, Complex Dynamics, One-dimensional dynamics.

Papers

- Matus de la Parra, V. Entropy of holomorphic correspondences. (work in progress).*
Matus de la Parra, V. (2023). Entropy of Compositions of Covering Correspondences. arXiv preprint arXiv:2310.14330.
Matus de la Parra, V. (2023). Equidistribution for matings of quadratic maps with the modular group. Ergodic Theory and Dynamical Systems, 1-29. doi:10.1017/etds.2023.33.

Awards

- 2021 | **Graduate Teaching Award** - *Department of Mathematics, University of Rochester*.
2018 | **Slattery Fellowship** - *University of Rochester*.

Talks

- 05/2023 | **Dynamical Systems Workgroup** - U of R. “*Holomorphic Correspondences and Entropy*”.
01/2023 | **Complex and Arithmetic Dynamical Systems** - JMM. “*Equidistribution for Matings of Quadratic Maps and the Modular Group*”.
11/2022 | **Midwest Dynamical Systems Conference** - IUPUI. “*Equidistribution for Matings of Quadratic Maps and the Modular Group*”.
03/2022 | **Complex Dynamics School** - IUPUI. “*Measure Theoretical Entropy*”.
10/2021 | **XLVII Semana de la Matemática** - PUCV. “*Equidistribution in Dynamics of Holomorphic Correspondences*”.
05/2021 | **Dynamical Systems Workgroup** - U of R. “*Parabolic Mandelbrot Set*”.
07/2018 | **Grad Students Seminar** - PUC “*Distribution of periodic orbits and entropy of rational maps on the Riemann sphere*”.
06/2018 | **Seminar: Dinámica Porteña Jr.** - PUCV. “*About the distribution of the solutions of the equation $f^n(\zeta) = z$* ”.
05/2018 | **Grad Students Seminar** - PUC. “*Mixing of geodesic flow on finite volume hyperbolic surfaces*”.
12/2017 | **Seminar: Dinámica Porteña Jr.** - PUCV. (**Undergraduate Thesis Defense**).
11/2017 | **Arithmetic Dynamics Seminar** - PUCV. “*Lattès maps and Ingram's theorem*”.
10/2017 | **Arithmetic Dynamics Seminar** - PUCV. “*Coordinates for the moduli space \mathcal{M}_2* ”.
06/2017 | **Coloquio de Licenciatura** - PUCV. “*Introduction to Lattès maps*”.
11/2014 | **XVIII Jornadas de Educación Matemática** - USACH. “*Construcción de conocimiento matemático en ibook: una experiencia que se perfecciona continuamente*”.

Organization

- Since 2023 | **Main contributor to Women in Math webpage**, *University of Rochester*.
Since 2020 | **Dynamical Systems Workgroup**, *University of Rochester*.
July 2018 | **Dynamics Speed Dating**, *Pontificia Universidad Católica de Valparaíso*.
2017–2018 | **Seminar: Dinámica Porteña Jr.**, *Pontificia Universidad Católica de Valparaíso* (details [here](#)).

Projects

- 2014 | **Project Assistant** “*Aportes gráficos y experimentación en el Aprendizaje de la Matemática en el Primer Año de Ingeniería*” Universidad Católica de Valparaíso.

Selected Conferences & Workshops

2023	Complex Dynamics and Related Fields , <i>University of Warsaw</i> .
2023	Simons Semester: Complex Dynamics and Related Fields , <i>University of Warsaw</i> .
2023	Joint Mathematical Meetings , <i>American Mathematical Society</i> .
2022	Midwest Dynamical Systems Conference , <i>Indiana University-Purdue University Indianapolis</i> .
2022	Equidistribution and Arithmetic Dynamics , <i>Oklahoma State University</i> .
2022	Midwest Dynamical Systems Early Career Conference , <i>University of Notre Dame</i> .
2022	Complex Dynamics School , <i>Indiana University-Purdue University Indianapolis</i> .
2020	Complex Dynamics in the Southern Hemisphere , <i>Pontificia Universidad Católica de Chile</i> .
2018	Workshop on Groups, Geometry & Dynamics: A satellite conference of ICM 2018 , <i>Universidad de la República, Uruguay</i> .
2017	Encuentro de Geometría Compleja y Dinámica Holomorfa-Aritmética , <i>Pontificia Universidad Católica de Valparaíso, Universidad de Valparaíso, Universidad Federico Santa María</i> .
2017	XLIII Colloquium: Celebrating Rafael Labarca's 60th Birthday , <i>Universidad de Santiago de Chile</i> .
2017	Summer School on Arithmetic and Dynamics , <i>Universidad de Los Andes, Colombia</i> .
2016	SUMA Sociedad Matemática Chilena & Unión Matemática Argentina , <i>Pontificia Universidad Católica de Valparaíso, Universidad de Valparaíso, Universidad Federico Santa María</i> .

[Full list here]

Teaching Experience

Fall 2023	Differential Equations and Linear Algebra <i>University of Rochester</i> .
Summer 2023	Linear Algebra <i>University of Rochester</i> .
Spring 2023	Calculus II <i>University of Rochester</i> .
Summer 2022	Calculus III, (course coordinator of 3 sections) <i>University of Rochester</i> .
Summer 2021	Linear Algebra <i>University of Rochester</i> .
Summer 2020	Calculus I <i>University of Rochester</i> .
2015	“Euclidean Geometry” (co-instructor) Programa Beta <i>Pontificia Universidad Católica de Valparaíso</i> .
2018	Multivariable Calculus (co-instructor) <i>Pontificia Universidad Católica de Valparaíso</i> .

Teaching Assistant Experience

Since 2018	Precalculus MATH 140, Calculus II MATH 142, Calculus III MATH143, Calculus I MATH 161, Calculus II MATH 162, Calculus III MATH164, Differential Equations MATH 165, Linear Algebra MATH235, Algebra I MATH236, Real Analysis MATH 471. <i>University of Rochester</i> .
Summer 2021	Calculus III for STEM program. <i>University of Rochester</i> .
2021-2023	Center of Excellence in Teaching and Learning (tutor). <i>University of Rochester</i> .
2015–2017	Ordinary Differential Equations. <i>Universidad Andrés Bello</i> .
2015–2017	General Topology, Measure Theory, Calculus (I, II and III), Algebra, Euclidean Geometry, Ordinary Differential Equations. <i>Pontificia Universidad Católica de Valparaíso</i> .

Extra Curricular

2022	Workshop on Safe Space (University of Rochester).
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Languages

Spanish (native), English (fluent), French (basic) and ASL (conversational).