
José Ignacio Rojas Rojas: Curriculum Vitae

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1 Education

- 2015 - 2019 B.Sc. in Mathematics, Universidad de Costa Rica.
2022 – Present M.Sc. and Ph.D. in Mathematics, Colorado State University.
◊ Advisor: Renzo Cavalieri

2 Positions

- 2016 - 2019 Teaching Assistant, Escuela de Matemáticas, Universidad de Costa Rica.
2021 - 2022 Lecturer, Escuela de Matemáticas, Universidad de Costa Rica.
2022 – Present Graduate Teaching Assistant, Department of Mathematics, Colorado State University.

3 Service

- 2016 - 2017 Study session assistant, Student Advisory Center, Universidad de Costa Rica.
2018 - 2019 President of the Student Association, Escuela de Matemáticas, Universidad de Costa Rica.
2018 - 2020 Problem-solving session assistant, Undergraduate Mathematics Competitions Team, Universidad de Costa Rica.
2019 - 2020 Treasurer of the Superior Student Council, Federation of Students, Universidad de Costa Rica.
2020 - 2021 Secretary of Finance, Federation of Students, Universidad de Costa Rica.
2023 - 2024 Assistant Director, Precalculus Center, Colorado State University.
2023 – Present Assistant Coach, CSU Putnam Club, Colorado State University.
2024 - 2025 Directed Reading Program Mentor, Department of Mathematics, Colorado State University.

4 Honors

- 2018 Participant, 10th Ibero-American Inter-University Mathematics Competition (CIIM), Santa Marta, Colombia.
2019 Participant, 11th Ibero-American Inter-University Mathematics Competition (CIIM), Guanajuato, Mexico.

5 Teaching and mentoring

Regular courses

- ◊ Precalculus.
- ◊ Introduction to Mathematics for the Social Sciences.
- ◊ Calculus in One and Several Variables. Calculus for Biological Scientists.
- ◊ Linear Algebra.
- ◊ Differential Equations.

Mentoring

Mentored two students in the Department of Mathematics' Directed Reading Program (DRP).

6 Extended professional travel

- 2017 - 2019 January-February Summer Program, Instituto Nacional de Matemática Pura e Aplicada, Rio de Janeiro, Brazil.
- 2018 Graph Thematic Program, Instituto Nacional de Matemática Pura e Aplicada, Rio de Janeiro, Brazil.
- 2018 School of Mathematics of Latin America and the Caribbean (EMALCA), Turrialba, Costa Rica.
- 2020 XXII International Symposium on Mathematical Methods Applied to Sciences (XXII SIMMAC), Universidad de Costa Rica.
- 2022 XXIII International Symposium on Mathematical Methods Applied to Sciences (XXIII SIMMAC), Universidad de Costa Rica.
- 2023 Western Algebraic Geometry Symposium (WUSTL Fall 2023), Washington University in St. Louis.
- 2024 School of Mathematics of Latin America and the Caribbean (EMALCA), Liberia, Costa Rica.
- 2024 Western Algebraic Geometry Symposium (Davis Spring 2024), University of California, Davis.
- 2024 Commutative Algebra and Algebraic Geometry in Tucson (CAAGTUS), The University of Arizona, Tucson.
- 2024 Western Algebraic Geometry Symposium (UA Fall 2024), The University of Arizona, Tucson.
- 2024 Summer School on Tropical Linear Spaces, Eberhard Karls University, Tübingen.
- 2025 Winter school on enumerative geometry and mirror symmetry, California Institute of Technology, Pasadena.
- 2025 AMS Spring Central Sectional Meeting, University of Kansas, Lawrence.
- 2025 Summer Research Institute in Algebraic Geometry, Colorado State University.
- 2025 Western Algebraic Geometry Symposium (Oregon Fall 2025), University of Oregon, Eugene.
- 2026 Western Algebraic Geometry Symposium (San Diego Spring 2026), University of California, San Diego.