

Joaquín Lema

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<https://lemajo.github.io>

Education	PhD in Mathematics	2022–2027 (expected)
	Boston College. Advised by Martin Bridgeman.	
	Master's in Mathematics	2020–2021
	Universidad de la República.	
	Link to dissertation . Advised by Rafael Potrie.	
	Bachelor in Mathematics	2016–2019
	Universidad de la República.	
	Link to dissertation . Advised by Ezequiel Maderna.	
Preprints and Publications	On separated families of Anosov representations	2026
	Joint with Joaquín Lejtregger. Preprint: arXiv:2604.18994 .	
	Epstein surfaces for G-opers	2026
	Preprint: arXiv:2601.09936 .	
	Uniform foliations with Reeb components	2021
	Algebraic & Geometric Topology 23 :9 (2023), 4379–4400. Preprint: arXiv:2112.04053 .	
Papers in Preparation	Zariski-density of discrete subgroups and their flag limit set	
	Joint with Sami Douba and Blandine Galiay.	
	Convex projective structures in the ideal reflection orbifold from the inside	
	Joint with Joaquín Lejtregger.	
	<i>Available upon request.</i>	
Awards and Fellowships	– Boston College Presidential Fellowship	2022–2027
	– Donald J. White Teaching Excellence Award	2024
	– CAP Excellence Fellowship for Master's students	2020–2021
Research Visits	Program Associate, SLMath	Spring 2026
	“Geometry and Dynamics for Discrete Subgroups of Higher Rank Lie Groups”.	
	Participant, IHP	Summer 2025
	“Higher-rank geometric structures program”.	
Talks	– Geometry, Dynamics, and Computer-Assisted Proofs <i>lightning talk</i>	Jun 2026
	– SLMath seminar on Epstein surfaces for G -opers	Spring 2026
	– UC Riverside Geometry and Topology seminar	Apr 2026
	– GATSBY (<i>lightning talk</i>)	Nov 2025
	– GATSBY (<i>lightning talk</i>)	Nov 2024
	– Moving to Higher Rank: from Hyperbolic to Anosov (<i>lightning talk</i>)	Jul 2024
	– Graduate Student Geometry and Topology Conference (MSU)	Apr 2024
	– Surfaces in 3-Manifolds (log cabin workshop)	Jan 2023
	– Dynamical Systems Seminar (UdelaR)	Aug 2022
	– Second Uruguayan Colloquium of Graduate Students (UdelaR)	Dec 2021
	– First Uruguayan Colloquium of Graduate Students (poster, UdelaR)	Dec 2019

Teaching Experience	Boston College	
	– TA, Analysis I	Fall 2026
	– Instructor, Finite Probability and Applications (summer)	Summer 2026
	– Directed Reading Program	Spring 2026
	– TA, Analysis I	Fall 2025
	– Instructor, Finite Probability and Applications (summer)	Summer 2025
	– Instructor, Statistics for the Health Sciences (Math 1180)	Spring 2025
	– Instructor, Finite Probability and Applications	Fall 2024
	– Instructor, Finite Probability and Applications (summer)	Summer 2024
	– TA, Calculus I (Math 1100)	Fall 2023
	– TA, Finite Probability and Applications (summer)	Summer 2023
	– TA, Calculus II (Math 1101)	Spring 2023
	– TA, Calculus II for Math/Science (Math 1103)	Fall 2022
	Teaching Assistant, Universidad de la República	
	– Mathematics 1 (Life Sciences)	Fall 2022
	– Measure and Integration	Spring 2021
	– Linear Algebra 1	Fall 2021
	– Point-Set Topology	Fall 2021
	– Differential Geometry of Curves and Surfaces	Spring 2020
	– Algebraic Topology	Fall 2020
	– Differential and Integral Calculus 1 (Physics)	Fall 2020
	– Linear Algebra 2 (Physics)	Spring 2019
	– Mathematics 1 (Life Sciences)	Fall 2019
	Math Olympiad Preparation	2021
	Member of “ Talleres de Matemática en Udelar ”. Gave seven lectures on Euclidean geometry for high-school teachers and students.	
Service	Conferences and seminars co-organized	
	– Topology Reading Group (Boston College)	Aug 2023–Dec 2024
	– Geometry Reading Group (Boston College)	Aug 2023–Jul 2024
	– Math department informal talks (Udelar)	Mar–Jul 2022
	– Second Uruguayan Colloquium of Graduate Students (Udelar)	Dec 2021
	– Undergraduate mathematics seminar, Faculty of Sciences	2018–2019
	Committees	
	– Student representative, Graduate Mathematics degree committee, Udelar	2020–2021
	– Student representative, Undergraduate Mathematics degree committee, Udelar	2018–2019
Personal	Nationalities: Uruguayan, Italian.	
	Languages: Spanish (native), English (C2), Portuguese (C1), French (B1).	