

Joaquín Lema

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Education	PhD in Mathematics. Boston College. Advised by Martin Bridgeman	2022-2027 (expected)
	Masters in Mathematics. Universidad de la República. Dissertation: “Foliaciones Uniformes en 3-variedades” , Advised by Rafael Potrie.	2020-2021
	Bachelor in Mathematics. Universidad de la República. Dissertation: “Curvas Pseudoholomorfas y aplicaciones”, Advised by Ezequiel Maderna.	2016-2019
Preprints and Publications:	Epstein surfaces for G-opers. Preprint: arXiv 2601.09936	2026
	Uniform foliations with Reeb components. Algebraic & Geometric Topology 23:9 (2023), 4379–4400. Preprint arXiv 2112.04053.	2021
Papers in preparation:	Quantitative entropy decay for $SL_3(\mathbb{R})$ pants representations. Joint with Joaquin Lejtreger.	
	On ideal triangle group representations onto $SL_3(\mathbb{C})$ Joint with Joaquin Lejtreger.	
Awards and Fellowships:	- Boston College Presidential Fellowship - Donald J. White Teaching Excellence Award - CAP Excellence Fellowship for Master students	2022 - present 2024 2020-2021
Visiting Positions	- Program Associate SLMath “Geometry and Dynamics for Discrete Subgroups of Higher Rank Lie Groups”	Spring 2026
Talks:	- GATSBY (<i>lightening talk</i>) - GATSBY (<i>lightening talk</i>) - Moving to Higher rank: from hyperbolic to Anosov (<i>lightening talk</i>) - Graduate Student Geometry and Topology Conference (MSU) - Surfaces in 3-manifolds (log cabin workshop) - Dynamical Systems Seminar (UdelaR) - Second Uruguayan Colloquium of Graduate Students (UdelaR) - First Uruguayan Colloquium of Graduate Students (poster session, UdelaR)	Nov 2025 Nov 2024 Jul 2024 Apr 2024 Jan 2023 Aug 2022 Dec 2021 Dec 2019

Teaching Experience:**Boston College:**

- Directed readings with undergraduate students Spring 2026
- TA for Analysis I Fall 2025
- Instructor for Finite Probability and Applications (summer session) Summer 2025
- Instructor for Math 1180 Statistics for the Health Sciences Spring 2025
- Instructor for Finite Probability and Applications Fall 2024
- Instructor for Finite Probability and Applications (summer session) Summer 2024
- TA for Math 1100 Calculus I Fall 2023
- TA for Finite Probability and Applications (summer version) Summer 2023
- TA for Math 1101 Calculus II Spring 2023
- TA for Math 1103 Calculus II (Math/Sci) Fall 2022

Teaching Assistant: Universidad de la República

- Mathematics 1 (for 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 (for Physicist) Fall 2020
- Linear Algebra 2 (for Physicist) Spring 2019
- Mathematics 1 (for Life Sciences) Fall 2019

Math Olympiad Preparation:

2021

Member of the project “Talleres de Matemática en Udelar”.
During 2021 I gave seven lectures on Euclidean Geometry aimed 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 2022-Jul 2022
- Second Uruguayan Colloquium of Graduate Students (Udelar) Dec 2021
- Organizer of the Math's undergraduates seminar on the Faculty of Sciences 2018-2019

Committees

- Student representative on the Graduate Mathematics degree committee, Udelar 2020 - 2021
- Student representative on the Undergraduate Mathematics degree committee, Udelar 2018-2019

Personal:

- Nationalities: Uruguayan, Italian.
- Languages: Spanish (Native), English (C2), Portuguese (C1), French (B1).