

Julio Sampietro Christ

Education:

- **Université Paris-Saclay (current)**
 - PhD: Floer homology and symplectic reduction
 - Advisor: Claude Viterbo
- **Université Paris-Saclay**
 - 2021-2022
 - M2 'Analyse Arithmétique et Géométrie'
 - Second year of Masters Program in Pure Mathematics
- **Universidad Nacional Autónoma de México, Mexico**
 - Years: 2016-2020
 - Bachelor's Degree in Mathematics
 - Best Academic Performance in Graduating Class: 10.00/10.00 Average
- **University of California at Berkeley, United States (study abroad semester)**
 - Fall 2019
- **Lycée Franco-Méxicain, Mexico**
 - Baccalaureate

Teaching:

- **Université Paris-Saclay**
 - Teaching Assistant
 - Linear Algebra, Spring 2024
 - Linear Algebra, Spring 2024
 - Integral Calculus, Spring 2023
 - Linear Algebra, Spring 2023
- **Universidad Nacional Autónoma de México, Mexico**
 - Teaching Assistant
 - Ordinary Differential Equations I, Spring 2020
 - Graph Theory, Spring 2020
 - Linear Algebra I, Summer 2020
 - Contribution to course notes [here](#)
 - Co-writer for undergraduate 'Graph Homology' project
 - Integral and Differential Calculus III, Fall 2020
 - Analytic Geometry II, Fall 2020
 - Integral and Differential Calculus IV, Spring 2021
 - Linear Algebra II, Spring 2021
- **CCH Sur, México**
 - Voluntary course given to high school students wishing to pursue a Bachelor's at UNAM's Faculty of Sciences, 2 month long course. Summer 2018 and Summer 2020.

Projects and research:

- **Master's Thesis**
 - "Floer Homology and Symplectic Reduction". Supervisor: Claude Viterbo
- **Undergraduate Thesis**
 - "Conley Index". Supervisor: Dr. Ernesto Rosales González. [Document](#)
 - Honorary distinction from the jury

- **VI Escuela de Invierno de Oaxaca, México, UNAM**
 - Workshop on Characteristic Classes and Exotic Spheres, January 2021
- **Research Interests**
 - Symplectic Topology, Algebraic Topology, Geometric Topology, Algebraic Geometry, Ordinary Differential Equations, Differential Geometry

Articles:

- Expository:
 - [‘The exotic world of Milnor’s spheres’](#), joint with Carlos Segovia, *Revista Colombiana de Matemáticas*, 57(1) pp. 37-85

Talks:

- **Orsay Topology and dynamics team seminar**
 - Title: A Cartan isomorphism for Lagrangian Floer homology, May 2024, [slides](#)
- **[Floer Homotopy Theory Spring School](#)**
 - Title: Proof of the main theorem, part 2, May 2024
- **Orsay COSY student seminar:**
 - Title: An overview of Hamiltonian Floer homology, January 2024
 - Title: Equivariant Lagrangian Floer homology, May 2024
- **Workshop on Pseudoholomorphic curves in Hamiltonian Dynamics**
 - Title: “Maslov and Conley-Zehnder indices”. Talk covering the basics of Maslov and Conley-Zehnder indices in an SFT context. February 2023
- **VI Escuela de Invierno de Oaxaca, México, UNAM**
 - Title: “Exotic Spheres: The Hirzebruch Signature Theorem”. Exposition on Milnor’s construction on exotic spheres with emphasis on multiplicative sequences and the signature theorem. February 2021
- **Petri nets reading [seminar](#)**
 - Title: “Reachability in Petri nets”. On Baez and Master’s approach to Reachability in their article ‘Open Petri nets’. June 2021
- **Mathematical Congress of the Americas (MCA)**
 - Poster presentation: “Homotopy theory of digraphs: A Categorical viewpoint” [Abstract](#). [Video](#). July 2021

Certificates, scholarships, awards and others:

- **Honorary distinction from the jury (undergraduate thesis)**
- **Santander Study Abroad Scholarship, Fall 2019**
- **Scholarship holder, Instituto de Matemáticas, UNAM, Spring 2019, Fall 2020, Spring 2021**
- **French Baccalauréat**

Languages:

- Spanish (native)
- French
 - Fluent, Baccalaureate
- English
 - Excellent, IELTS: 8.5/9, C2 level
- Portuguese
 - Intermediate

Contact information:

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