

Julio Sampietro Christ

Education:

- **Université Paris-Saclay**
 - 2022-Present
 - 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**
 - 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

Articles:

- Research:
 - 'Equivariant Lagrangian Floer homology is isomorphic to reduced Floer homology', preprint, [arXiv:2505.02647](https://arxiv.org/abs/2505.02647), 2025, *submitted*
 - 'Equivariant Lagrangian Displacements', joint with Dylan Cant, preprint, [arxiv.2510.20756](https://arxiv.org/abs/2510.20756), 2025, *submitted*
 - 'Around the equivariant Fukaya category', joint with Guillem Cazassus, in preparation
- Expository:
 - '[The exotic world of Milnor's spheres](#)', joint with Carlos Segovia, *Revista Colombiana de Matemáticas*, 57(1) pp. 37-85

Talks:

- **Symplectic Zoominar**
 - Title: Equivariant Lagrangian non-displacements, November 28th 2025
- **Symplectix Seminar, Paris**
 - Title: A Cartan Isomorphism for equivariant Lagrangian Floer theory, October 2025
- **Humboldt-Universität zu Berlin, Symplektische Geometrie Seminar**
 - Title: Equivariant Lagrangian Floer Homology and the Cartan Isomorphism, May 2025
- **First European Kylerec**
 - Title: 'Fukaya's approach part I', March 2025
- **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”, February 2023
- **VI Escuela de Invierno de Oaxaca, México, UNAM**
 - Title: “Exotic Spheres: The Hirzebruch Signature Theorem”, February 2021
- **Petri nets reading [seminar](#)**
 - Title: “Reachability in Petri nets”, June 2021
- **Mathematical Congress of the Americas (MCA)**
 - Poster presentation: “Homotopy theory of digraphs: A Categorical viewpoint”
[Abstract](#). [Video](#), July 2021

Teaching:

- **Université Paris-Saclay**
 - Teaching Assistant
 - Analysis for physicists, Fall 2025
 - Algebra for physicists, Fall 2025
 - Math 101 (for Biology and Chemistry students), Fall 2025
 - Linear Algebra, Spring 2025
 - Linear Algebra, Spring 2025
 - 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 theses:

- **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, Geometry

Certificates, scholarships, awards and others:

- **Gabino Barreda Medal, UNAM Faculty of science (awarded to best GPA of graduating class)**
- **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:

- Mail:
 - Paris-Saclay: julio.sampietro-christ@universite-paris-saclay.fr
 - jsampietro14@gmail.com
- Phone number:
 - Mexico: (+52) 5545 770961
 - France: (+33) 0769 204797