

Pietro Mesquita Piccione

Résumé

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Education

- 2022 – **PhD in Mathematics**, *Paris VI*, Sorbonne Université, Paris, France
current Advisors: Sébastien Boucksom and Tat Dat To
- 2021 – 2022 **Master's Degree in Mathematics**, *Paris VI*, Sorbonne Université, Paris, France
- 2017 – 2021 **Bachelor's degree in Mathematics**, *Universidade de São Paulo*, USP, São Paulo, Brazil
Prize for outstanding performance.

Research projects and grants

- 2022 – **MathInParis2020**, *Scholarship for a PhD in Paris*, Cofunded by Marie Skłodowska-Curie Actions, FSMP
current
- 2021 – 2022 **PGSM Scholarship**, *Scholarship for a Master's degree in Paris*, Fondation Sciences mathématiques de Paris
- 2020 – 2021 **Morse Theory**, *Undergraduate Research Project*, FAPESP
Grant FAPESP 2020/04871-0

Writing

- 2024 **A non-archimedean theory of complex spaces and the csc-K problem**, *Article in preparation*, Sorbonne Université
- 2022 **L^2 techniques in Complex Geometry**, *Master Thesis*, Sorbonne Université
- 2021 **Morse Theory**, *Undergraduate Thesis*, Universidade de São Paulo

Talks

- 2024 **The non-archimedean approach of the Yau–Tian–Donaldson conjecture**, *Séminaire des Thésards*, IMJ-PRG, Université Paris Cité, France
- 2024 **The non-archimedean approach of the Yau–Tian–Donaldson conjecture**, *Demi-Journée des doctorant.e.s de l'équipe TGA 2024*, IMJ-PRG, Sorbonne Université, France
- 2022 **A counterexample for the periodic orbit conjecture**, *Groupe De Travail Dynamiques Sauvages*, IMJ-PRG, Sorbonne Université, France
- 2021 **A Tale of Geometry**, *S4*, Instituto de Matemática e Estatística, Universidade de São Paulo, Brazil
- 2020 **Morse Theory in 15 Minutes**, *Senior Thesis Presentation*, Instituto de Matemática e Estatística, Universidade de São Paulo, Brazil
- 2020 **Is the Earth flat? A talk about curvature**, *S4*, Instituto de Matemática e Estatística, Universidade de São Paulo, Brazil

Professional

Events attended

- 2024 **Summer school on Complex Geometry and canonical metrics**, CRM, Montréal, Canada
- 2023 **Global invariants of arithmetic varieties**, CIRM, Luminy, France
- 2023 **Summer School and Workshop "Advances in special Kähler metrics"**, Le Croisic, France

- 2023 **Complex analysis and geometry: celebrating the 70+1th birthday of László Lempert**, *Rényi Institute*, Budapest, Hungary
- 2022 **Géométrie : échanges et perspectives**, *Insitut Henri Poincaré*, Paris, France
- 2021 **Géométrie : échanges et perspectives**, *Insitut Henri Poincaré*, Paris, France
- 2019 **32nd Brazilian Mathematics Colloquium**, *IMPA*, Rio de Janeiro, Brazil
- 2018 **ICM 2018**, *International Congress of Mathematicians*, Rio de Janeiro, Brazil

Events Organized

- 2022 **MaThematical Days : Paul Erdős**, *Universidade de São Paulo*, São Paulo, Brazil
- 2021 **MaThematical Days : Emmy Noether**, *Universidade de São Paulo*, São Paulo, Brazil
- 2021 **MaThematical Days : Élie Cartan**, *Universidade de São Paulo*, São Paulo, Brazil

Academic Services

- 2021 **Organizer of the A5 Group**, *A student runned academic group, Instituto de Matemática e Estatística*, Universidade de São Paulo, Brazil
Over 25 weekly seminars organized
- 2019 **Deputy Student Representative in the Mathematics Department Council**, *Instituto de Matemática e Estatística*, Universidade de São Paulo, Brazil
- 2018 **Deputy Student Representative in the Mathematics Department Council**, *Instituto de Matemática e Estatística*, Universidade de São Paulo, Brazil

Current Teaching

- 2024/2 **Teaching Assistantship**, *Topology and Differentiable Calculus I, Paris VI*, Sorbonne Université, France
- 2025/1 **Teaching Assistantship**, *Introduction to Riemann Surfaces, Paris VI*, Sorbonne Université, France

Past Teaching

- 2024/1 **Teaching Assistantship**, *Functional Analysis, Paris VI*, Sorbonne Université, France
- 2023/2 **Teaching Assistantship**, *Topology and Differentiable Calculus I, Paris VI*, Sorbonne Université, France
- 2020/2 **Teaching Assistantship**, *Introduction to Algebraic Topology, Instituto de Matemática e Estatística*, Universidade de São Paulo, Brazil
- 2019/2 **Teaching Assistantship**, *Introduction to Analysis, Instituto de Matemática e Estatística*, Universidade de São Paulo, Brazil
- 2019/1 **Teaching Assistantship**, *Differentiable functions and series, Instituto de Matemática e Estatística*, Universidade de São Paulo, Brazil
- 2018/2 **Teaching Assistantship**, *Calculus II*, Escola Politecnica, Universidade de São Paulo, Brazil

Other Info

Related Activities

- 2021 – 2022 **Reading Seminar on Wild Dynamics**, *Groupe De Travail Dynamiques Sauvages*, IMJ-PRG, Sorbonne Université
- 2021 **Summer IMPA**, *Differential topology graduate course*, IMPA, Rio de Janeiro, Brazil
Online due to COVID
- 2020 **Summer IMPA**, *Functional Analysis graduate course*, IMPA, Rio de Janeiro, Brazil
with financial support
- 2018 **Summer IMPA**, *Real Analysis*, IMPA, Rio de Janeiro, Brazil
with financial support

Languages

- Portuguese Native Speaker
- Italian Native Speaker
- English Fluent
- Spanish Fluent

French Fluent
Catalan Intermediate

Links

Lattes <http://lattes.cnpq.br/7822745238118143>
Orcid <https://orcid.org/0000-0002-1626-0726>

References

Reference I Sébastien Boucksom
Reference II Tat Dat To