

Annamaria Ortu

Curriculum Vitae

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Position

January-March 2022 **Visiting PhD student**, *Univeristy of Cambridge and Gonville & Caius College*.
Funded by Ruadhaí Dervan's Royal Society University Research Fellowship.

Education

September 2023 **Ph.D. in Geometry and Mathematical Physics**, *SISSA Scuola Internazionale di Studi Superiori Avanzati, Trieste*.
Thesis title: "The geometry of holomorphic submersions, their deformations and moduli".
Supervisors: Ruadhaí Dervan and Jacopo Stoppa.

September 2019 **Master degree in Mathematics**, *Università degli Studi di Trieste - joint programme "Percorso formativo comune" with SISSA*.
Thesis title: "The constant scalar curvature equation on Kähler toric surfaces". Supervisor: Jacopo Stoppa.

July 2017 **Bachelor degree in Mathematics**, *Università degli Studi di Milano Statale*.

Research papers

preprint **The analytic moduli space of holomorphic submersions**, *ArXiv preprint: 2306.09137*.

article **Optimal symplectic connections and deformations of holomorphic submersions**, *Advances in Mathematics*, Vol 414, 2023.
<https://doi.org/10.1016/j.aim.2023.108868>.

Invited Talks

Conferences

August 2023 Conference "*Analytic Methods in Complex Geometry*".
University of Münster

June 2023 Summer school "*Recent advances in Kähler geometry*".
Le Croisic

April 2023 Conference "*Around Complex Geometry*".
University of Illinois, Chicago

April 2023 AMS Eastern Spring Sectional Meeting, special session "*Recent advances in differential geometry*".
online

September 2022 Conference "*Complex Analysis and Complex Geometry*".
Bellavista Relax Hotel, Levico, organised by CIRM-FBK

- June 2022 Conference “*Kähler and non-Kähler geometry: new developments and interactions*”.
Aarhus Institute of Advanced Studies
- June 2022 Workshop “*MARGE - Young researchers in Kähler and Hermitian geometry*”.
Université de Montpellier
- December 2021 Conference “*EDGE Days 2021: Explicit K-stability and moduli problems*”.
University of Edinburgh

Seminars

- October 2023 Università di Parma, *Mathematics Seminar*.
- April 2023 UQÀM, Montréal, *Kähler Geometry Seminar*.
- March 2023 University of Glasgow, *Algebraic Geometry Seminar*.
- March 2023 Università degli studi di Firenze, *Geometry Seminar*.
- October 2022 Purdue University, *Geometric Analysis Seminar*.
- October 2022 University of Illinois, Chicago, *Geometry and Topology Seminar*.
- April 2022 Chalmers University, Gothenburg, *KASS Seminar*.
- February 2022 University of Cambridge, *Algebraic Geometry Seminar*.

Talks at Junior Events

- May 2022 Summer school “*GAEL XXIX - Géométrie Algébrique en Liberté*”.
Université Paris-Saclay. Contributed Talk
- February 2022 University of Cambridge, *Junior Geometry Seminar*.
- February 2022 King’s College, London, *KCL/UCL Junior Geometry Seminar*.
- December 2021 Conference “*PhD Days 2021*”.
Università degli studi di Milano Statale

Organisational Activities

- 2023 **SISSA Junior Geometry and Mathematical Physics Seminar**,
Co-organiser.
- 2021 **SISSA Junior Math Days, December 2021**, Co-organiser.
The Junior Math Days are a three-day event organised every year by the math PhD students at SISSA, aimed at master students interested in research.
- 2021-2022 **Graduate Interuniversity Math Seminar, online**, Co-organiser.
The GIM seminar ([webpage](#)) was a series of online talks, in the spirit of “What is” talks, organised by and aimed for PhD students and young researchers in different fields of mathematics.

Teaching

- Spring 2023 TA for the master course Differential Geomtry held at SISSA by Prof. Jacopo Stoppa.
- Autumn 2018 TA for the undergraduate course Geometria 3A (differential geometry of curves and surfaces) held at the University of Trieste by Prof. Mattia Mecchia, *20 hours*.

Service

- Since March 2022 Member of European Women in Mathematics.

Since January 2020 Member of the INdAM group GNSAGA (Geometry group within the Italian Institute of Mathematics).

Outreach

May 2023 **Speaker at the event “Matematici al Lavoro”** organised by the University of Trieste to present possible career paths to undergraduate students in Mathematics.

2020-2023 **Volunteer in the “SISSA for School” programme** run by SISSA Medialab to promote science and research among teenagers and children.