

Annamaria Ortu

Curriculum Vitae

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Position

Since November 2023 **Postdoctoral researcher**, *Univerisity of Gothenburg, Sweden*.

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. Available on [Iris](#)

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*.

Publications and Preprints

preprint **Moment maps and stability of holomorphic submersions**.
ArXiv preprint: [2407.03246](#)

preprint **Constant scalar curvature Kähler metrics and semistable vector bundles, with Lars Martin Sektnan**.
ArXiv preprint: [2406.08284](#)

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 and Academic Visits

Spring 2024 I participated in the thematic programme "*New equivariant methods in algebraic and differential geometry*", *Isaac Newton Institute, Cambridge*.

Conferences

- July 2024 *BRIDGES International Conference.*
Cargese, Corsica
- May 2024 Conference “*K-stability and moment maps*”, within the programme “*New equivariant methods in algebraic and differential geometry*”.
Isaac Newton Institute, Cambridge
- March 2024 Conference “*Asymptotic Methods in Complex Geometry*” in memory of Steve Zelditch.
Northwestern University
- 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

- February 2024 University of Nottingham, *Algebraic Geometry Seminar*, online.
- 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

Grant

- 2024 GNSAGA - INdAM travel grant to visit Gábor Székelyhidi at Northwestern University, *March 2024*.

Activities I co-organised

- 2024 **Complex geometry seminar**, *within the programme “New equivariant methods in algebraic and differential geometry”*.
Isaac Newton Institute, Cambridge
- 2023 **SISSA Junior Geometry and Mathematical Physics Seminar**.
- 2021 **SISSA Junior Math Days**, *December 2021*.
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*.
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.