

Beatrice Brienza

Date of birth: 10/12/1998 | **Nationality:** Italian | **Gender:** Female | **Email address:** beatrice.brienza1998@gmail.com |

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EDUCATION AND TRAINING

01/11/2022 – CURRENT Torino, Italy
PHD IN PURE AND APPLIED MATH Politecnico di Torino

Supervisor: Professor Anna Fino
Co-Supervisor: Professor Gueo Grantcharov

Field of study Complex Geometry

09/2020 – 19/07/2022 Torino, Italy
MASTER DEGREE IN MATHEMATICS University of Turin

Thesis advisor: Professor Anna Fino

Final grade Cum Laude With Honors | **Thesis** On an example of Generalized Kähler mapping torus

09/2017 – 07/2020 Torino, Italy
BACHELOR DEGREE IN PURE MATHEMATICS University of Turin

Thesis advisor: Professor Alberto Albano

Final grade Cum Laude | **Thesis** Sul Teorema di Nielsen-Schreier, due dimostrazioni a confronto

2012 – 2017 Bari, Italy
HIGH SCHOOL DIPLOMA Scientific high school Gaetano Salvemini

Final grade 100/100

LANGUAGE SKILLS

Mother tongue(s): **ITALIAN**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	C1	C1	B2	B2	B2

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

PUBLICATIONS

2025
[Holonomy of the Obata connection on Joyce hypercomplex manifolds](#)

Pre-print

Authors: B. Brienza, U. Fowdar, G. Gentili, L. Vezzoni

2025
[Holonomy of the Obata connection on 2-step hypercomplex nilmanifolds](#)

Pre-print

Authors: A. Andrada, M.L. Barberis and B. Brienza

2025
[On the structure of compact strong HKT manifolds](#)

Pre-print

Authors: B. Brienza, A. Fino, G. Grantcharov and M. Verbitsky

2025

[A mapping tori construction of strong HKT and generalized HyperKähler manifolds](#)

Authors: B. Brienza, A. Fino, G. Grantcharov | **Volume, Issue and Pages:** "Real and Complex Geometry - in Honour of Paul Gauduchon" | **Publisher:** Springer

Link <https://link.springer.com/book/10.1007/978-3-031-92297-8>

2024

[Strong Kähler with torsion solvable Lie algebras with codimension two nilradical](#)

Authors: B. Brienza and A. Fino | **Journal Name:** Math. Nachr. | **Volume, Issue and Pages:** 1–25

2024

[SKT and CYT manifolds with parallel Bismut torsion](#)

Authors: B. Brienza, A. Fino, G. Grantcharov | **Journal Name:** Proc. R. Soc. Edinb. A: Math. | **Volume, Issue and Pages:** 1-26

2025

[Generalized Kähler Manifolds via Mapping Tori](#)

Authors: B. Brienza, A. Fino | **Journal Name:** J. Symp. Geom. | **Volume, Issue and Pages:** 385-422

● INVITED SEMINARS

30/10/2025

[Holonomy of the Obata connection on Joyce hypercomplex manifolds](#)

Talks in the seminar of the IGT at the University of Stuttgart.

Link <https://www.igt.uni-stuttgart.de/dokumente/poster-oberseminar/Brienza.pdf>

17/09/2025 – 19/09/2025

[Holonomy of the Obata connection on Joyce hypercomplex manifolds](#)

Recent advances in complex and Kähler geometry, Cagliari

Link <https://sites.google.com/view/rackgcagliari>

13/06/2025

[The holonomy of the Obata connection on Joyce's hypercomplex manifolds](#)

Tarde compleja, University of Córdoba, Argentina

08/05/2025

[Some properties of compact strong HKT manifolds](#)

Seminarios del Grupo de Geometría Diferencial Facultad de Matemática, Astronomía, Física y Computación de la Universidad Nacional de Córdoba

Link <https://sites.google.com/prod/view/seminariogeometriafamaf>

28/04/2025

[The Obata connection on Joyce's hypercomplex manifolds](#)

Seminários at Institute of Mathematics Pura e Aplicada (IMPA), Rio de Janeiro, Brasil

Link <https://impa.br/seminarios/>

27/04/2025

[An introduction to the Bismut connection](#)

Seminário de geometria, Universidade Federal de Rio de Janeiro (UFRJ), Rio De Janeiro

16/04/2025

[Some remarks on BHE and Strong HKT manifolds](#)

Seminários at Institute of Mathematics Pura e Aplicada (IMPA), Rio de Janeiro, Brasil

Link <https://impa.br/seminarios/>

31/03/2025

Bismut Hermitian Einstein and strong HKT manifolds

Informal Geometry Workshop in Paradiso, Cogne (Aosta)

Link <https://sites.google.com/view/igwp2025/home-page?authuser=0>

19/02/2025

Bismut Hermitian Einstein and strong HKT manifolds

Complex geometry at Aarhus University, Aarhus

Link <https://conferences.au.dk/cogeomau>

10/12/2024

Some Remarks on the BHE condition

Seminar Informal de Noutăți Geometrice, University Alexandru Ioan Cuza of Iasi, România (online)

Link <https://sites.google.com/view/marian-ioan-munteanu/home/research/sing?authuser=0>

25/11/2024

La geometria della connessione di Bismut

Ciclo di Seminari Math-lab: cycle of seminars for un-graduated students of Mathematics at University of Torino

Link <https://www.mathematics-phdseminars.unito.it/past-seminars>

07/11/2024

Some Remarks on the BHE condition

Joint research seminar UNIBA-POLIBA on Geometry and Algebra, Bari

Link <https://sites.google.com/view/sga-poliuniba>

27/10/2024 – 01/11/2024

Generalized Kahler manifolds via mapping tori

The international conference on differential geometry (ICDG), Fez, Marocco

Link <https://www.beatricebrienza.com/talks-and-conferences>

17/10/2024 – 17/10/2024

Some remarks on the BHE condition

Seminarios del Grupo de Geometría Diferencial Facultad de Matemática, Astronomía, Física y Computación de la Universidad Nacional de Córdoba (online)

Link <https://sites.google.com/view/seminariogeometriafamaf/inicio?authuser=0>

22/09/2024 – 27/09/2024

Generalized Kahler manifolds via mapping tori

Workshop on generalized complex structures and homological methods: Hamburg

Link <https://www.conferences.uni-hamburg.de/event/464/>

08/04/2024 – 10/04/2024

CYT and SKT manifolds with Parallel Bismut Torsion

Differential Geometry Workshop in Lerici, Lerici

Link <https://sites.google.com/view/dgwlerici?usp=sharing>

16/02/2024 – 18/02/2024

CYT and SKT manifolds with Parallel Bismut Torsion

Symmetry and Geometry in South Florida, Florida International University, MIAMI

Link <https://sites.google.com/view/sgsf-2024/home-page?authuser=0>

18/01/2024

CYT and SKT manifolds with Parallel Bismut Torsion

Seminari di Geometria, Dipartimento di scienze Matematiche, Fisiche e Informatiche, Università di Parma

Link <https://smfi.unipr.it/notizie/giovedi-18-gennaio-ore-17-seminario-dottssa-beatrice-brienza-cyt-and-skt-manifolds-parallel>

03/07/2023 – 07/07/2023

An introduction to Closed G2 structures

British Isles Graduate Workshop (BIGW) IV: Geometric flows and related topics

TEACHINGS

10/2021 – 01/2022

Tutor of the lectures Linear Algebra and Geometry

Department of mathematics of Finance and Insurance, University of Torino

10/2020 – 01/2021

Tutor of the lectures Geometry and Linear Algebra I A

Department of Physics, University of Torino

VISITING PERIODS

28/10/2025 – 31/10/2025

University of Stuttgart

Invited by Prof. Uwe Semmelmann

03/05/2025 – 03/07/2025

Universidad Nacional de Córdoba, Cordoba

Invited by Professor Adrian Andrada

17/04/2025 – 03/05/2025

Instituto de Matemática Pura e Aplicada (IMPA), Rio de Janeiro

Invited by Professor Misha Verbitsky

01/02/2024 – 01/03/2024

Florida International University, MIAMI

Invited by Professor Anna Fino

ORGANIZED EVENTS

18/11/2024

PhD Day

Palazzo Campana, University of Torino (Italy)

Link <https://sites.google.com/view/phday/home?authuser=0>

GRANTS

2025 – 2026

"INdAM - GNSAGA Project", codice CUP E53C24001950001 (2000€)

Generalized Kahler structures on solvmanifolds

With M. Miceli, L. Sillari and T. Sferruzza