

Beatrice Brienza

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Gender: Female **Date of birth:** 10/12/1998 **Nationality:** Italian

EDUCATION AND TRAINING

[07/2027 – 07/2029]

Humboldt Fellowship

City: University of Stuttgart | **Country:** Germany

[04/2026 – Current]

Postdoctoral Researcher

IMPA <https://impa.br>

Field(s) of study: Complex geometry

[01/11/2022 – 15/01/2026]

PhD in Pure and Applied Math

Politecnico di Torino

City: Torino | **Country:** Italy | **Field(s) of study:** Complex Geometry

Supervisor: Professor Anna Fino

Co-Supervisor: Professor Gueo Grantcharov

[09/2020 – 19/07/2022]

Master degree in Mathematics

University of Turin

City: Torino | **Country:** Italy | **Final grade:** Cum Laude With Honors | **Thesis:** On an example of Generalized Kähler mapping torus

Thesis advisor: Professor Anna Fino

[09/2017 – 07/2020]

Bachelor degree in Pure Mathematics

University of Turin

City: Torino | **Country:** Italy | **Final grade:** Cum Laude | **Thesis:** Sul Teorema di Nielsen-Schreier, due dimostrazioni a confronto

Thesis advisor: Professor Alberto Albano

[2012 – 2017]

High School Diploma

Scientific high school Gaetano Salvemini

City: Bari | **Country:** Italy | **Final grade:** 100/100

LANGUAGE SKILLS

Mother tongue(s): Italian

Other language(s):

English

LISTENING C1 **READING** C1 **WRITING** B2

SPOKEN PRODUCTION B2 **SPOKEN INTERACTION** B2

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

PUBLICATIONS

[2026]

[Hermitian curvature flow and HKT geometry](#)

Reference: B. Brienza, J. Streets

Submitted.

[2026]

[Sasaki with torsion manifolds and String backgrounds](#)

Reference: B.Brienza, A. Fino, U. Fowdar, G. Grantcharov

Submitted.

[2025]

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

- [2026] [Holonomy of the Obata connection on 2-step hypercomplex nilmanifolds](#)
Authors: A. Andrada, M.L. Barberis and B. Brienza | **Journal Name:** Bull. Lond. Math. Soc. | **Volume, Issue and Pages:** 58: e70338
- [2026] [On the structure of compact strong HKT manifolds](#)
Authors: B. Brienza, A. Fino, G. Grantcharov and M. Verbitsky | **Journal Name:** Comm. Math. Phys. | **Volume, Issue and Pages:** 407, 122
- [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. Sympl. Geom. | **Volume, Issue and Pages:** 385-422

INVITED SEMINARS

- [21/08/2026] **Hermitian curvature flow and HKT geometry**
Seminario de Geometria diferencial
Link: <https://www.ime.unicamp.br/~geodif/informacao.html>
- [02/07/2026] **(Strong) HKT manifolds: new and old advances**
Algebraic geometry Seminar, Campinas
- [11/05/2026 – 13/05/2026] **Holonomy of the Obata connection on Joyce hypercomplex manifolds**
Campinas-Miami Mathematical Meeting - Geometry and Related Topics
- [23/03/2026 – 27/03/2026] **On the structure of compact strong HKT manifolds**
Geometry, HOlonomy and Structures with Torsion (GHOST), Munster
- [11/02/2026] **Holonomy of the Obata connection on Joyce hypercomplex manifolds**
Institute of Mathematics and Informatics (IMI) at the Bulgarian Academy of Sciences
- [06/02/2026] **Holonomy of the Obata connection on Joyce hypercomplex manifolds**
Seminari di Geometria, Dipartimento di scienze Matematiche, Fisiche e Informatiche, Università di Parma
- [29/01/2026] **Holonomy of the Obata connection on two-step hypercomplex Lie algebras**
DIFFERENTIAL and (HYPER)COMPLEX GEOMETRY, Ferrara
Link: <https://docente.unife.it/cinzia.bisi/differential-and-hyper-complex-geometry>
- [22/01/2026] **Strong HKT manifolds**
[String Geometry Online Seminars](#)
Link: <https://www.youtube.com/watch?v=AskPRL-C1XU>
- [17/09/2025 – 19/09/2025] **Holonomy of the Obata connection on Joyce hypercomplex manifolds**
Recent advances in complex and Kahler geometry, Cagliari
Link: <https://sites.google.com/view/rackgcagliari>

- [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>
- [13/06/2025] **The holonomy of the Obata connection on Joyce's hypercomplex manifolds**
Tarde compleja, University of Cordoba, 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, Universidad Federal de Río 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	
[02/08/2026 – 08/08/2026]	UC Irvine Invited by Professor Jeffrey Streets
[28/06/2026 – 03/07/2026]	Instituto de Matemática, Estatística e Computação Científica (IMECC), Campinas Invited by Professors Andrey Soldatenkov and Viviana Del Barco
[08/02/2026 – 10/03/2026]	Institute of Mathematics and Informatics (IMI) at the Bulgarian Academy of Sciences Invited by Professor Gueo Grantcharov
[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

[2026 – Current] **Geometry and TACoS**

Link: <https://sites.google.com/view/geometry-and-tacos/home-page>

[2026 – Current] **String Geometry online Seminars**

Link: <https://sites.google.com/view/sgos/home?authuser=1>

[18/11/2024] **PhD Day**

Palazzo Campana, University of Torino (Italy)

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

GRANTS

[25/05/2026 – 29/05/2026] **Grant from ICTP (400€) to participate at the International Conference on Complex and Differential Geometry**

Link: <https://indico.ictp.it/event/11144/>

[2025 – 2026] **"INdAM - GNSAGA Project", codice CUP E53C24001950001 (2000€)**

Generalized Kahler structures on solvmanifolds

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