

# Giacomo Ageno

## Curriculum Vitæ

Department of Pure Mathematics  
and Mathematical Statistics  
University of Cambridge  
UK

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🌐 [giacomoageno.github.io](https://giacomoageno.github.io)

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### Personal information

Place and date of birth Albenga (Italy), March 13, 1992

Citizenship Italian

Language Italian (native), English (fluent)

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### Research Positions

Sept 2023 – present **Research Associate**, *University of Cambridge*

Host: Prof. Pierre Raphaël

June 2023 – Aug 2023 **Research Associate**, *University of Bath*

Host: Prof. Manuel del Pino

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### Education

Oct 2018 – April 2023 **PhD in Mathematics**, *University of Bath*

Advisors: Manuel Del Pino & Monica Musso

Thesis: Infinite-time blow-up for the nonlinear heat equations in low dimension

Apr 2018 **Master degree in Mathematics**, *Università degli Studi di Milano*,

Graduation date: 13 April 2018, grade: 110/110 cum Laude

Advisor: Bernhard Ruf

Thesis: On the De Giorgi-Nash-Moser theory and an application in fluid dynamics

Erasmus (1 semester) at Wrocław University of Science and Technology

2016 **Bachelor degree in Mathematics**, *Università degli Studi di Milano*

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### Research

Preprint

- [1] G. Ageno and M. del Pino. Infinite time blow-up for the three dimensional energy critical heat equation in bounded domains, 2023. **arXiv:2301.10442**

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### Grants

2018-2022 Royal Society PhD grant (4 years). University of Bath

2017 Lombardy region grant for merit (1 year). Università degli Studi di Milano

2017 Erasmus scholarship (6 months). Università degli Studi di Milano

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## Teaching

2019-2023 **Teaching assistant**, *University of Bath*

Tutorial classes for: mathematical analysis, complex analysis, probability, vector calculus and PDEs

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## Invited talks in seminars

October 2023 Young researchers in PDEs, ICMAT Madrid, *Upcoming*

16 March 2023 Analysis Seminar, University of Bath

29 May 2023 Seminario di Analisi Matematica, Università degli Studi di Milano

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## Participation in conferences

Sept 2023 Young researchers in PDEs, ICMAT Madrid

July 2023 Non-linear elliptic PDE, ICMAT, Madrid

May 2023 Advances in Nonlinear Analysis and Nonlinear Waves, a conference in honor of Frank Merle, Paris

May 2019 Courses on PDE and Fluid Mechanics, Warwick

Feb 2019 Winter School in Calculus of Variations, CIMI institute, Toulouse

Jun 2018 16<sup>th</sup> School on Interaction between Dynamical Systems, and Partial Differential Equations, Barcelona

Jun 2018 Summer School in Geometric Analysis, CIME, Cetraro

Jun 2018 Nonlinear PDEs in Geometry and Physics, INDAM, Cortona

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## Referee for

Calculus of Variations and Partial Differential Equations