

# Giacomo Ageno

## Curriculum Vitæ

Department of Pure Mathematics  
and Mathematical Statistics  
University of Cambridge  
UK

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### Personal information

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*,  
Graduation date: 28 June 2023  
First Supervisor: Manuel Del Pino. Second supervisor: 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  
Supervisor: 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

#### Submitted 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](https://arxiv.org/abs/2301.10442)

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### Grants

2018-2022 Royal Society PhD grant (4 years). University of Bath  
2017 Lombardia regional 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 and Academic contributions

- 2019-2023 **Teaching assistant**, *University of Bath*  
Tutorials for: Mathematical analysis, Complex analysis, Probability, Vector calculus and PDEs
- Dec 2023 **Interviewer for Mathematical Tripos**, *University of Cambridge, St Catharine's College*
- Dec 2023 - present **Postdoctoral Affiliate of Trinity College**, *University of Cambridge*

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## Invited talks in seminars

- November 2023 London PDE Seminar
- October 2023 Young researchers in PDEs, ICMAT Madrid
- May 2023 Seminario di Analisi Matematica, Università degli Studi di Milano
- March 2023 Analysis Seminar, University of Bath

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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