

# Tommaso Faustini

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**Email:** tommasofaustini@gmail.com

**Citizenship:** Italy

**University:** University of Warwick

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**Research interests** Algebraic geometry, Positive Characteristic, Moduli Spaces and Algebraic number theory.

**Education**

**University of Warwick** Coventry, UK  
MA in mathematics October 2023 – Present  
Supervisor: Damiano Testa and Christian Boehning

**University of Paris Cité** Paris, France  
M2 de Mathématiques fondamentales September 2022 – January 2023  
I have attended the courses: "Variétés algébriques", "Théorie de l'homologie", "Schémas I" and "Introduction à l'arithmétique des courbes elliptiques".

**University of Pisa** Pisa, Italy  
MA in mathematics September 2021 – September 2023  
Supervisor: Ilaria Del Corso  
GPA: 29.80/30  
Honour's degree: 110/110 e lode

**University of Pisa** Pisa, Italy  
BA in mathematics September 2018 – September 2021  
Supervisor: Davide Lombardo  
GPA: 29.33/30  
Honour's degree: 110/110 e lode  
Thesis: Elliptic curves with complex multiplication and their application to class field theory.

**Liceo Niccolò Copernico** Prato (PO), Italy  
Liceo Scientifico September 2013 – July 2018

**Awards and  
acknowledgments**

**Scholarship for Bachelor Students in Mathematics**

Institution: Istituto Nazionale di Alta Matematica

Amount: 4000€ x3.

**Scholarship for Master Students in Mathematics**

Institution: Istituto Nazionale di Alta Matematica

Amount: 2500€ + 1000€.

## 9th Heidelberg Laureate Forum

Heidelberg Laureate Institute

17-25 September 2022

The HLF is a one-week fully paid event combining scientific, social and outreach activities. The recipients of the most prestigious awards in mathematics and computer science (e.g. Abel Prize, Turing Award, Fields Medal..) are invited to participate and give lectures which are primarily directed at the limited number of participating young scientists (200). The 200 young researchers are selected (based on the application material submitted) by international experts who are appointed by the award-granting institutions: The Association for Computing Machinery (ACM), the Norwegian Academy of Science and Letters (DNVA) and the International Mathematical Union (IMU).

### Teaching experience

10/01- 18/03/2024

#### **Teaching assistant of Multilinear Algebra**

University of Warwick

10/01- 18/03/2024

#### **Supervision of maths first year group**

University of Warwick

01/03- 20/06/2023

#### **Tutoring of Mathematics for the study course Mathematics**

University of Pisa.

31/06- 31/09/2022

#### **Tutoring of Mathematics for the study course Mathematics**

University of Pisa.

01/02- 31/06/2022

#### **Tutoring of Linear Algebra for the study course Informatics**

University of Pisa.

06/11/21 - 31/01/2022

#### **Tutoring of Calculus 1 for the study course Energy Engineering**

University of Pisa.

27/02 - 01/03 2020

#### **Mathematical Olympiad stage**

I held a stage for high school students in Nuoro.

### Talks

01/05/2024

#### **Introduction to Chow groups**

Study group on intersection theory, University of Warwick

16/02/2024

#### **Toric variety from a fan**

Study group on Toric Varieties, University of Warwick

### Conference attended

06/2024

#### **Géométrie Algébrique en Liberté (Gael XXXI)**

University of Turin

04/2024

#### **British Algebraic Geometry meeting**

University of Sheffield

03/2024

#### **Computational Algebraic Geometry Research Network**

University of Warwick

09/2022

#### **Heidelberg Laureate Forum**

Heidelberg University

Workshops schools	and	<b>A Modern Introduction to Number Theory (MINT)</b>
09/2024		University of Pisa
		<b>Facets of Algebraic Geometry</b>
04/2024		Queen Mary University of London
		<b>InI UK Geometry Network Winter School</b>
12/2023		University of Warwick
		<b>HPRT Summer school and Workshop</b>
09/2023		Università di Torino
Other experience		<b>International Mathematical Olympiad</b>
2024		Team Guide at IMO in Bath.
		<b>National Mathematical Olympiad</b>
2015/16-2017/18		I attended the team final.
2017/18		I attended the individual final.
2018/19- Present		I am one of the collaborators who organizes the "National Mathematics Olympics". In particular, I deal with the conception, creation, and revision of new problems for the National team competition.
		<b>Alternanza Scuola-Lavoro</b>
2017		I spend 200 hours in the University of Florence, Mathematics department, under the supervision of the professor Orazio Puglisi.
Certification		<b>IELTS</b>
		Grade: 7.5
		It demonstrates an ability at level C1.
Skills		<b>Programming</b>
		Familiar with: C, LATEX and Python.
		<b>Software</b>
		Familiar with: GeoGebra, MATLAB, Octave, Office, magma and Sage.
		<b>Languages</b>
		Italian (mother tongue), English (C1), French (Basic knowledge) and Spanish (Basic knowledge).