

# Carlo Buccisano

## Curriculum Vitae

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Italian, English, French and (A2) Spanish

PhD in mathematics, with research experience in algebraic geometry and algebraic topology, passionate about programming and Linux. Looking for Data Science industry roles.

### Work Experience

- 2024–2025 **Research and Teaching Assistant (ATER)**, Université Paris-Saclay (Orsay)  
Taught 192 hours of undergraduate courses in French: analysis, linear algebra and geometry.
- 2021–2025 **Ph.D. in Mathematics**, Université Paris-Saclay (Orsay)
- Led research in derived algebraic geometry, a subject mixing algebraic geometry with modern homotopy theory techniques, and used derived D-modules to connect several concepts in the literature and solve conjectures about Lie algebroid cohomology.  
My thesis can be found on [HAL](#) and on [arXiv](#).
  - Co-organized the GAeL XXIX conference, that brought more than 100 people to Orsay.
  - Gave several public research talks and poster presentations to audiences of different backgrounds.
- July 2015 **Computer Programmer**, IBM, UK
- Built an internal planner tool, pair-programming and part of a team of 5 (Agile workflow).
  - Python backend to manage MySQL databases from JSON queries coming from a webapp.
  - Prize by the Bank of Italy for the study of Maths and Computer Science.

### Technical Skills

- Familiar HTML, CSS, JavaScript (Coded my webpage), SQL (Internship)  
`git`, Docker (Self-hosting on my server)
- Proficient C++ (CS Olympiads), Python (Internship and university), Bash scripting, L<sup>A</sup>T<sub>E</sub>X

### Education

- 2021–2025 **Ph.D. in Mathematics**, Université Paris-Saclay (Orsay)
- 2016–2022 **Galileian Diploma**, Scuola Galileiana di Studi Superiori, Padova (Italy)  
Graduated from [Scuola Galileiana](#), an honors college in Padova (7% admission rate).  
Relevant courses: Machine Learning, Concurrent Java programming and game theory.
- 2019–2021 **M.Sc. in Mathematics**, Università degli Studi di Padova & Université Paris-Saclay  
Graduated with maximum honors from [Algant double degree](#), first year in Padova (30/30) then in Orsay (18.7/20). Funded by a 10.000€ scholarship from FMJH.
- 2016–2019 **B.Sc. in Mathematics**, Università degli Studi di Padova  
GPA: 29.965/30; 110/110 *cum laude* (maximum honors).

### Awards

- 2013–2015 **Medals in Italian Maths and Informatics Olympiads**  
Won two gold (an absolute first and third place) and one bronze medals in Italian Informatics Olympiads, and one silver medal in Italian Mathematical Olympiads.
- 2013–2015 **Competitive Programming**  
Participated in online competitions such as Google Code Jam, HashCode, Codeforces, USACO.