

Fabio Tonini

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EDUCATION

- **Italian National Scientific Abilitation** as University Professor 2021
- **Scuola Normale Superiore of Pisa** Pisa, Italy
PhD in Mathematics. Advisor: Angelo Vistoli 2009-2013
- **University of Pisa** Pisa, Italy
Master's Degree in Mathematics, 110/110 cum laude 2006-2008
Bachelor's Degree in Mathematics, 110/110 cum laude 2003-2006

SKILLS

- python, bash
- pandas, numpy, sphinx, git, L^AT_EX, linux
- Advanced Mathematics (Linear Algebra, Topology, Abstract Algebra, Statistics, Probability)

EXPERIENCE

- **University of Florence** Florence, Italy
Post-doctoral researcher in Math 2018 - 2021
- **Freie University** Berlin, Germany
Post-doctoral researcher in Math 2015 - 2018
- **Humboldt University** Berlin, Germany
Post-doctoral researcher in Math 2013 - 2015

ACADEMIC EXPERIENCE

- Published 15 research articles in top peer-reviewed mathematical journals, as an independent researcher in pure Math. (See Publications). The main area of investigation is algebraic geometry, a modern fusion between abstract algebra and classical geometry. My main accomplishment has been the invention of a mathematical structure called the "local fundamental group". The local fundamental group provides a novel link between the 19th century field of mathematics called Galois theory, and the modern theory of stacks and orbifolds [Link to the paper](#)
- Delivered 16 research talks at conferences and institutions in various countries, including: Italy, France, Germany, Sweden, Hong Kong, India, Japan, Australia.
- Professor for seven courses across six semesters in the University of Florence: Basic math (Linear Algebra, Calculus, Statistics, Probability) in the Departments of Natural and Pharmaceutical sciences; Advanced Geometry in the Math Department.

PERSONAL PROJECTS

- extremals (Python) Toolset to inspect pandas dataframes looking for "extremals rows", i.e. rows "numerically different" from others.
- Commu (Python) Graphical interface tool to easily draw mathematical diagrams in L^AT_EX.
- Minesweeping (Python) Terminal version of the classic game.
- Playradio (Bash) Listen or record webradios.

AWARDS

- Italian grant PRIN for research, traveling and other expenses (€220k total) 2021
- Two year Junior visiting position at Centro De Giorgi in Pisa (€65k) 2018
- One year scholarship at Scuola Normale Superiore of Pisa (€20k) 2012
- Student of Scuola Normale Superiore of Pisa with final diploma (6 awarded across Italy in 2006) 2006-2008
- Indam scholarship during my undergraduate studies (50 awarded across Italy in 2003) (€20k) 2003-2006

HOBBIES AND INTERESTS

Scuba diving and photography, especially together as underwater photography. I actively participate in photography contests. I ranked 1st in "52nd Natale Subacqueo di Amalfi" and "12th Trofeo Mosti Luciano" (category wide). Some videos: South Africa, Mexico. My instagram account: @jacobbbb84