# 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, IATEX, linux
- Advanced Mathematics (Linear Algebra, Topology, Abstract Algebra, Statistics, Probability)

#### EXPERIENCE

• University of Florence Post-doctoral researcher in Math	Florence, Italy 2018 - 2021
• Freie University Post-doctoral researcher in Math	Berlin, Germany 2015 - 2018
• Humboldt University Post-doctoral researcher in Math	Berlin, Germany 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) Set of tools to inspect pandas dataframes looking for "extremals rows", that is rows "numerically different" from other ones.
- Commu (Python) Graphical interface tool to easily draw mathematical diagrams in IATEX.
- 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
$\bullet$ Indam scholarship during my undergraduate studies (50 awarded across Italy in 2003) ( ${\in}20k)$	2003-2006

## Hobbies and Interests

Scuba diving and photography, especially together as underwater photography. I actively participate in photography contests. I ranked 1<sup>st</sup> in "52<sup>nd</sup> Natale Subacqueo di Amalfi" and "12<sup>th</sup> Trofeo Mosti Luciano" (category wide). Some videos: South Africa, Mexico. My instagram account: @jacobbb84