Università di Roma "La Sapienza"
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# Lorenzo Pagani

## Personal details

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| Gender | Male |
| Birth date | 31 October 1993 |
| Nationality | Italian |

## Current position

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| Nov. 2017 – present | **Ph.D. Student in Mathematics**, *Università degli Studi di Roma "La Sapienza"*, Rome. |

## Education

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| Sep. 2015 – Oct. 2017 | **Master Degree in Mathematics**, *Università degli Studi di Milano*, Milano. |
| Sep. 2012 – Jul. 2015 | **Bachelor's Degree in Mathematics**, *Università degli Studi di Milano*, Milano. |
| 2007 – 2012 | **High School Diploma**, *Liceo Scientifico "Donato Bramante"*, Magenta (Milano). |

## P.h.D. research

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| Advisors | Prof. René Schoof (Università degli Studi di Roma "Tor Vergata") |
| Main interests | I'm interested in the $\mathbb{Z}_p$ extension over $\mathbb{Q}$, in particular in the $\ell$-part of the class groups of the different levels. I'm currently studying some applications of Iwasawa theory in the case of elliptic curves. |

## Master thesis

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| Title | *The Sato-Tate Conjecture* |
| Advisors | Prof. Lenny Taelman (University van Amsterdam) - Prof. Fabrizio Andreatta (Università degli studi di Milano) |
| Abstract | In this tesis, I recalled the Sato-Tate conjecture for scheme that are separated, of finite type and proper over $\mathbb{Z}$. I follow the proof of it in the case of elliptic curves with complex multiplication via an example and some computational data. |
| Grade | 110/110 summa cum laude |

## Attended conferences and schools

27 – 31 Aug. 2018    **University of Copenhagen**, *Masterclass: Mahler measures and special values of L functions*, Copenhagen (Denmark).

03 – 07 Jul. 2018    **University of Luxembourg**, *Summer School: Explicit and computational approaches to Galois representations*, Luxembourg (Luxembourg).

25 – 29 Jun. 2018    **University of Zagreb**, *Torsion groups and Galoi representations of elliptic curves*, Zagreb (Croatia).

18 – 20 Apr. 2018    **Università Roma Tre**, *The fourth mini symposium of the RNTA*, Roma (Italy).

12 Apr. 2018    **Università di Parma**, *Giornata dei dottorandi di Teoria dei Numeri: seconda edizione*, Parma (Italy).

## Working experiences

Sep. 2018 – Jan. 2019    **Teaching assistant "Geometria 1" for Department of Engineering**, *Università di Roma "La Sapienza": Dipartimento di Scienze di Base e Applicate per Ingegneria (SBAI)*, Rome.

Apr. 2018 – Jun. 2018    **Teaching assistant "Analisi 1" for Department of Mathematics**, *Università di Roma "La Sapienza": Dipartimento di Matematica*, Rome.