






Riccardo Pengo

PhD student at the University of Copenhagen

 Born in Milan, Italy on December 21st, 1993

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Languages

Spanish - CEFR level B1

English - CEFR level C1

Italian - Native speaker

Computer skills

TeX

Linux

SAGE

PARI-GP

C

Python

Matlab®

Education

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|-----------|---|-------------|
| 2017- | PhD in Mathematics University of Copenhagen (KU) | EQF level 8 |
| 2015-2017 | M.Sc. <i>cum laude</i> in Mathematics ALGANT Master University of Milan & Leiden University | EQF level 7 |
| 2012-2015 | B.Sc. <i>summa cum laude</i> in Mathematics University of Milan GPA: 29.47/30 | EQF level 6 |
| 2007-2012 | Upper secondary education diploma Liceo Scientifico “A. Einstein”, Milan Final Grade: 100/100 | EQF level 4 |

Teaching

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| Fall 2016 | Teaching assistantship “Mathematics for Statisticians” Leiden University | University |
| 2012-2016 | Private tutoring for high school students Liceo Scientifico “A. Einstein” and others Milan | High school |

Scholarships

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|-----------|--|------------------|
| 2017-2020 | Full PhD stipend University of Copenhagen (KU) | 3 years |
| 2016-2017 | ERASMUS Scholarship University of Milan | 10 months, €2400 |
| 2012-2015 | INdAM Scholarship for Undergraduate Students University of Milan | 3 years, €12000 |

Project works

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|------------------|---|---------------|
| Feb. - Aug. 2017 | ALGANT Master thesis “An adelic description of modular curves” Advised by Peter Bruin in Leiden University | Number theory |
| July 2016 | Algebraic Surfaces seminar “Surfaces with zero Kodaira dimension” University of Milan | Geometry |
| July 2016 | Homological Algebra seminar “Group cohomology and the Mordell-Weil theorem” University of Milan | Algebra |
| June 2016 | Number Theory seminar “Ramification and the different ideal” University of Milan | Number theory |
| Dec. 2015 | Commutative Algebra seminar “Axiomatic definition of the Krull dimension” University of Milan | Algebra |
| July 2015 | Final Bachelor Degree seminar “Algebraic integers: euclidean domains and rings of integers” University of Milan | Number theory |

Schools and conferences attended

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|---------------------|---|---------------|
| 27.08.17 - 02.09.17 | Summer school on Modular Forms Padova, Italy | Summer school |
| 17.07.17 - 19.07.17 | Where Geometry meets Number Theory Göteborg, Sweden | Conference |
| Aug. 2014 | INdAM Bachelor Summer School Perugia, Italy | Summer school |
| Aug. 2013 | INdAM Bachelor Summer School Perugia, Italy | Summer school |

Additional information

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| 2017- | Experience as an amateur actor "Leiden English Freshers", Leiden | Theatre |
| 2013-2016 | Experience as an amateur improvisational theatre actor "Teatro del Vigentino", Milan | Theatre |
| 2014-2016 | Student representative University of Milan, Department of Mathematics | Politics |

Brief outline of my PhD project

During my PhD project I will try to find relationships between heights and special values of L-functions. I will try in particular to find explicit relationships between the Mahler measure of a polynomial, which tells us how "big" the polynomial is, and linear combinations of special values attained by the derivative of an L-function. L-functions are Dirichlet series which can be attached to many kinds of objects. The challenge here will be, given a polynomial, to understand which object we need to consider in order to obtain the identity that we are looking for.

I am working under the supervision of [Ian Kiming](#) and [Fabien Pazuki](#).