

# Matteo Verzobio

## Curriculum Vitae

*Nationality: Italian*  
*Place of birth: Negrar, VR, Italy*  
*Birthdate: 3rd November 1993*

### Research fellow

Date 1st November 2021- present  
 University Università di Pisa  
 Topic Number Theory

### Phd student in mathematics

Period 1st November 2017-30th June 2021  
 University Università di Pisa  
 Supervisor Prof. Roberto Dvornicich  
 Thesis Primitive divisors of elliptic divisibility sequences  
 Grade Graduated Cum Laude

### Diploma of Scuola Normale Superiore

University Scuola Normale Superiore  
 Period From 1st November 2012 since 31st October 2017 I was a student at Scuola Normale Superiore. On 21st December 2018, I was awarded with the Diploma of Scuola Normale Superiore

### Master's degree in mathematics

Date 27th October 2017  
 University Università di Pisa  
 Title Galois module structure of the square root of the inverse different  
 Supervisor Prof. Ilaria Del Corso  
 Grade 110/110 cum laude

### Bachelor's degree in mathematics

Date 12th June 2015  
 University Università di Pisa

*Dipartimento di Matematica, Largo Bruno Pontecorvo 5, Room 317 – 56127  
 Pisa (Italy)*

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Title Classificazione dinamica degli endomorfismi del cerchio: da Poincarè ad Arnold ("Dynamic classification of the endomorphisms of the circle: from Poincarè to Arnold")  
Supervisor Prof. Stefano Marmi  
Grade 110/110 cum laude

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## Papers

- o Matteo Verzobio, Primitive divisors of sequences associated to elliptic curves with complex multiplication, *Research in Number Theory*, Volume 7, 37(2021). DOI:10.1007/s40993-021-00267-9
- o Matteo Verzobio, Primitive divisors of elliptic divisibility sequences for elliptic curves with  $j=1728$ , *Acta Arithmetica*, Volume 198, 2021. DOI: 10.4064/aa191016-30-7
- o Matteo Verzobio, Primitive divisors of sequences associated to elliptic curves, *Journal of Number Theory*, Volume 209, April 2020. DOI: <https://doi.org/10.1016/j.jnt.2019.09.003>.

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## Preprints

- o Matteo Verzobio, A recurrence relation for elliptic divisibility sequences, 2021, to appear in *Rivista di Matematica della Università di Parma*, (<https://arxiv.org/abs/2102.07573>)
- o Matteo Verzobio, Some effectivity results for primitive divisors of elliptic divisibility sequences, 2020, (<https://arxiv.org/abs/2001.02987>)

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## Conferences attended

- o Topics in Rational and Integral Points, University of Basel, 2nd-6th September 2019
- o Galois Theory and Number Theory, University of Dresden, 13rd-19th July 2019
- o The fifth mini symposium of the Roman Number Theory association, Rome, 10th-12nd April 2019
- o Mahler measures and special values of L functions, University of Copenhagen, 27th-31st August 2018
- o Explicit and computational approaches to Galois representations, University of Luxembourg, 3rd-7th July 2018

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## Talks

- o A recurrence relation for elliptic divisibility sequences. Webinar at Sambalpur University, 24th November 2021
- o Primitive divisors of elliptic divisibility sequences. Phd thesis presentation, University of Pisa, 30th June 2021
- o A recurrence relation for elliptic divisibility sequences. Number theory seminar at University of Luxembourg, 18th May 2021

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- Sequences associated to elliptic curves. Algebra, geometry and number theory seminar at Leiden University, 4th December 2020
- Primitive divisors in elliptic divisibility sequences, Linfoot seminar, University of Bristol, 29th April 2020
- Galois module structure of the square root of the inverse different. Master's degree thesis presentation at University of Pisa, 27th October 2017
- On Linnik's theorem. Colloquium at Scuola Normale Superiore, May 2016

## Teaching

- Teaching support, University of Pisa, 2019, Analysis 1.  
Course held by Prof. Ilaria Del Corso at the faculty of Construction Engineering.  
Activities: tutoring, written exams, oral exams.
- Teaching support, University of Pisa, 2018, Analysis 2.  
Course held by Prof. Marco Ghimenti at the faculty of Construction Engineering.  
Activities: tutoring, teaching, written exams.

## Languages

- Italian: Native; English: Fluent; Spanish: Beginner

## Other experiences

- Basic knowledge of the following software: Pascal, C++, Python (Numpy, Pandas), PARI/GP, SageMath, Octave, Maple, Magma
- Reviewer for MathSciNet
- Representative of the Phd Students in "Collegio di Dottorato", 2019-2020
- Gold medal at the Italian Mathematical Olympiads, 2012
- Stage in robotics, Department of Informatics, Università di Verona, Summer 2011
- Silver medal at the Italian Mathematical Olympiads, 2011