

Maurizio Moreschi (MSc.)

Curriculum Vitae

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*"Fatti non foste a viver come bruti ma per seguir
virtute e canoscenza"*



Key words Love for learning, never ending desire of self-improvement, passion, ambition, determination, creativity, dedication.

Education

- Sep. 2019–
present **Networks PhD training**, *Multiple locations*.
Series of conferences, workshops and training weeks.
- Oct. 2019–
present **PhD soft skills training**, *University of Amsterdam*.
• *Teaching skills for PhD candidates* (8 hrs)
• *Individual supervision of students projects* (8 hrs)
- Oct. 2012–
Nov. 2018 **Excellence school diploma**, *Scuola Galileiana di Studi Superiori (SGSS)*, Padova (PD), Italy, 99/100.
Highly selective trajectory for excellent students, <http://www.unipd-scuolagalileiana.it/en/>
- Oct. 2015–
Aug. 2018 **MSc Mathematics**, *Leiden University*, 9,37/10 (*cum laude*).
Specialization: ALGANT (ALgebra, Geometry and Number Theory), <http://algant.eu/>
- Oct. 2015–
Aug. 2018 **MSc Mathematics**, *University of Regensburg*, 1,0/1,0 (*with distinction*).
Specialization: ALGANT (ALgebra, Geometry and Number Theory), <http://algant.eu/>
- Oct. 2012–
Sep. 2015 **BSc Mathematics**, *University of Padova*, 110/110 (*summa cum laude*).
Mostly oriented towards pure mathematics.

- Sep. 2007– **High School Diploma**, *Liceo Scientifico L. da Vinci*, Jesi (AN), Italy, *100/100*.
Jul. 2012 Pre-university education oriented towards scientific studies. During my high school years, I took part in extracurricular projects and national competitions on several subjects, reaching notable results in maths and philosophy.

Employment history

- Sep. 2019 – **PhD candidate**, *University of Amsterdam (UvA)*.
Present In my PhD I am investigating combinatorial and algorithmical properties of graph polynomials, both in theoretical and applied settings. My supervisors are dr. Guus Regts and dr. Viresh Patel.
Apr. 2017– **Private math teacher**, in-home and online.
Present Tailored tutoring of high school and university students.
Sep. 2017– **Teaching assistant**, *Leiden University*.
Aug. 2018 See below.
Oct. 2014– **Tutor in project for high school students**, *University of Padova*.
Nov. 2014 Project title: *Modular Arithmetic and Cryptology*.

Research interests

- Discrete mathematics, number theory, combinatorics, interplay between different areas of mathematics and between mathematics and applied sciences.

Papers

- *S-parts of values of univariate polynomials (in press)*

Academic teaching Experience

Bachelors courses.

- *Analyse 3* (Amsterdam, Spring 2020) [in Dutch]

Masters courses.

- *Numerical Algorithms* (Amsterdam, Fall 2019)
- *Representation theory of finite groups* (Leiden, Spring 2018)
- *Curves over finite fields* (Leiden, Fall 2017)

Students

Bachelor theses.

- *Justin Baars* (2020) [cosupervised together with Guus Regts]

Second year projects.

- *Annemarie Geertsema and Debbie Wagenaar* (2020)

Talks

○ Theses defences:

- *Resolutions of singularities and log-canonical thresholds* (SGSS thesis defence; Padova, November 21th 2018)
- *S-parts of values of univariate polynomials and decomposable forms* (Master thesis defences; Leiden, June 25th 2018 / Regensburg, July 16th 2018)
- *L-functions and Iwasawa Theory* (Bachelors thesis defence; Padova, September 25th 2015)

○ Student seminars:

- *Hodge structures* (Utrecht, December 21st 2016);
- *Main theorems of local class field theory* (Regensburg, July 7th and 14th 2016);
- *Elliptic curves over finite fields* (Regensburg, June 29th 2016);
- *Unramified and tamely ramified extensions* (Regensburg, May 19th 2016);
- $SO_2(\mathbb{R})$ -decomposition of representations of $SL_2(\mathbb{R})$ (Regensburg, April 27th 2016);
- *Simplicial sets* (Regensburg, December 9th 2015).

Achievements

Scholarships

- SGSS excellence school bursary;
- ALGANT excellence scholarship (ALExS);
- Regensburg excellence scholarship;
- Leiden excellence scholarship.

Languages

Italian	Native	Spanish	Intermediate (B1)
English	Fluent (C1)	German	Elementary (A2)
Dutch	Fluent (C1)		

Relevant computer skills

LaTeX	Very good	Geogebra	Very good
Mathematica	Good	SageMath	Good
Python	Basic	HTML5/CSS	Basic

To complete the picture

Interests	Math research and education, recreational mathematics, science information, languages, personal development, real estate.
Hobbies	Cooking, board games, singing, harmonica playing, exercising.
Certificates	ECDL, Dutch language certificate level C1, driving licence B.