



## Mattia Puddu

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**Date of birth**: 29/01/1996 **Place of birth**: Nuoro, Italy **Nationality**: Italian

### WORK EXPERIENCE

**University of Pisa - Department of Civil and Industrial Engineering**

**City**: Pisa | **Country**: Italy | **Business or sector**: Education

[ 09/2023 – 12/2023 ]

**University tutor for the pre-course "Matematica 0" (coordinated by Prof. Massimo Caboara and taught by Prof. Irene Venturi)**

1. Held weekly online meetings (via Microsoft Teams), providing targeted exercises to support students in passing the OFA tests required for admission to undergraduate programs.

**University of Pisa - Department of Agricultural, Food and Agro-Environmental Sciences**

**City**: Pisa | **Country**: Italy | **Business or sector**: Education

[ 09/2022 – 12/2022 ]

**University tutor for the course "Matematica e Statistica" (Bachelor's degree in Viticulture and Oenology, taught by Prof. Valentino Magnani)**

1. Conducted the "Mathematics 0" pre-course, including preparation of exams and corresponding solutions.
2. Held weekly in-class meetings with students for problem-solving and theoretical clarifications.
3. Reviewed exam papers and solutions from midterm tests throughout the semester.
4. Supervised students during the exams mentioned above.

**University of Pisa - Department of Computer Science**

**City**: Pisa | **Country**: Italy | **Business or sector**: Education

[ 12/2021 – 07/2022 ]

**University tutor for the course "Algebra Lineare B" (Bachelor's degree in Computer Science, taught by Prof. Mauro Di Nasso)**

1. Held meetings with students (mostly upon request) for problem-solving and theoretical clarifications.

**University of Pisa - Department of Physics**

**City**: Pisa | **Country**: Italy | **Business or sector**: Education

[ 10/2019 – 07/2020 ]

**University tutor for the course "Geometria A" (Bachelor's degree in Physics, taught by Prof. Mario Salvetti and Prof. Filippo Di Santo)**

1. Held meetings with students (mostly upon request) for problem-solving and theoretical clarifications.
2. Corrected midterm and final exams, including the preparation of written solutions.

### EDUCATION AND TRAINING

[ 09/2015 – 03/2019 ]

**Bachelor's Degree**

**University of Pisa** | <https://www.unipi.it>

**City**: Pisa | **Country**: Italy | **Field(s) of study**: Mathematics | **Final grade**: 110/110 summa cum laude | **Level in EQF**: EQF level 6 | **Thesis**: The Picard-Vessiot Theory — An Introduction with Applications to Fuchsian Differential Equations (Advisor: Prof. Paolo Acquistapace)

**Link**: <https://mattiapuddu25.github.io/BachelorThesis.html>

[ 09/2010 – 07/2015 ]

**High school diploma**

### Elective University Exams

During my university studies, I successfully completed the following elective exams in addition to the mandatory courses of my degree program:

1. **Coxeter Groups** with a grade of 30/30 cum laude (taught by Prof. Michele D'Adderio and Prof. Mario Salvetti)
2. **Elements of Algebraic Geometry** with a grade of 30/30 cum laude (taught by Prof. Rita Pardini)
3. **Algebraic Geometry C** (Riemann Surfaces) with a grade of 30/30 cum laude (taught by Prof. Marco Franciosi)
4. **Algebraic Combinatorics** with a grade of 30/30 cum laude (taught by Prof. Michele D'Adderio)
5. **Analytic Number Theory A** (Entire functions; Distribution of prime numbers and Riemann Zeta function; Characters and Dirichlet L-functions) with a grade of 30/30 cum laude (taught by Prof. Giuseppe Puglisi)
6. **Group and Representations** with a grade of 30/30 cum laude (taught by Prof. Michele D'Adderio and Prof. Giovanni Gaiffi)
7. **Elements of Algebraic Topology** with a grade of 30/30 cum laude (taught by Prof. Filippo Callegaro)
8. **Elements of Complex Analysis** with a grade of 30/30 cum laude (taught by Prof. Marco Abate)
9. **Modular Forms** with a grade of 30/30 cum laude (taught by Prof. Andrea Maffei and Prof. Davide Lombardo)
10. **Lie Algebras and Lie Groups** with a grade of 30/30 cum laude (taught by Prof. Giovanni Gaiffi and Prof. Enrico Le Donne)
11. **Algebraic Number Theory 1** (Integral extensions; Dedekind domains; Ramification and inertia of primes in Galois extensions; Minkowski convex body theorem) with a grade of 28/30 (taught by Prof. Ilaria Del Corso and Prof. Roberto Dvornicich)
12. **Elementary Number Theory** with a grade of 30/30 cum laude (taught by Prof. Giuseppe Puglisi)

### PROJECTS

#### Math Olympiads




I have always been interested in the Italian Mathematical Olympiad project. Over the years, I have compiled my solutions to the National Team Competitions held in Cesenatico into two files (available on my website). These files also include theory notes that can be used to prepare for the competitions.

Link: <https://mattiapuddu25.github.io/MathOlympiads.html>

### SKILLS

Operative systems: Windows, MacOS, Linux, Android, iOS | Matlab | C | HTML (basic) | LaTeX (advanced)

### DIGITAL SKILLS TEST RESULTS

	Information and data literacy	ADVANCED	Level 6 / 6
	Communication and collaboration	ADVANCED	Level 6 / 6
	Digital content creation	ADVANCED	Level 5 / 6



Safety

**ADVANCED** Level 6 / 6



Problem solving

**ADVANCED** Level 6 / 6

Results from a [self-assessment](#) based on [The Digital Competence Framework 2.1](#)

## LANGUAGE SKILLS

**Mother tongue(s):** Italiano

**Other language(s):**

**Inglese**

**LISTENING** B2 **READING** B2 **WRITING** B2

**SPOKEN PRODUCTION** B2 **SPOKEN INTERACTION** B2

**Spagnolo**

**LISTENING** B1 **READING** B1 **WRITING** B1

**SPOKEN PRODUCTION** B1 **SPOKEN INTERACTION** B1

*Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user*