

Vincenzo Pallozzi Lavorante

Curriculum Vitae

Current Position

2019–2021 **Visiting PhD student**, *UNIVERSITÀ DELLA BASILICATA*, Italia.

Supervisor Prof. Gábor Korchmáros

2018–2021 **PhD student in Mathematics**, *UNIVERSITÀ DEGLI STUDI DI MODENA E REGGIO EMILIA*, Italia.

Supervisors Prof. Gábor Korchmáros, Prof. Massimo Giulietti

Education

2016–2018 **Master's Degree in Mathematics, general Curriculum**, *UNIVERSITÀ DEGLI STUDI DI PERUGIA*, Italia, *110/110 cum laude*, GPA: 30.00/30.00.

2013–2016 **Bachelor's degree in Mathematics**, *UNIVERSITÀ DEGLI STUDI DI PERUGIA*, Italia, *110/110 cum laude*.

2008–2013 **Experimental scientific maturity**, *Scientific high school P.N.I. (Piano nazionale di informatica)*, ISTITUTO GALILEO GALILEI, Perugia (PG), 98/100.

Tesi di Laurea

Master's Thesis

Title ***One-Point codes from BM curves***

Supervisors Prof. Massimo Giulietti

Description Study of some Weierstrass Point of the BM curves; complete characterization of Weierstrass semigroups of two short orbits; Construction of AG and Quantum codes; Determination of Frobenius dimension of the BM curves.

Bachelor's Thesis

Title ***Monomial Ideal***

Supervisors Prof. Anna Lorenzini

Description Complete characterization of monomial ideals, uniqueness of a particular type of minimal primary decomposition; monomial modules of finite type and characterization of monomial syzygies.

Areas of interest

Algebraic curves over finite fields, coding theory, finite group theory, graph theory and design theory.

Activities

Didactics

- 2020–2021 **"Cultore della Materia"**, *UNIVERSITÀ DEGLI STUDI DI PERUGIA*, Dipartimento di Scienze Farmaceutiche, corso di laurea in Chimica e Tecniche Farmaceutiche, Italia.
Didactics and activities with supervisor Prof. Fernanda Pambianco.
- 2018–2019 **Tutor of "Geometry and algebra"**, *UNIVERSITÀ DEGLI STUDI DI PERUGIA*, Dip. di Ingegneria.
Supervisor: Prof. Fernanda Pambianco
- 2016–2018 **Tutor of "Numerical Analysis"**, *UNIVERSITÀ DEGLI STUDI DI PERUGIA*, Italia.
Supervisor: Prof. Bruno Iannazzo

Grants, Honours and Awards

- 2019 **Premio di Laurea in memoria del Prof. Stefano Guazzone**, *Università degli studi di Perugia*, Italia.
<http://www.dmi.unipg.it/dipartimento/news/338-cerimonia-di-assegnazione-premi-di-laurea>
- 2018–2021 **PhD scholarship**, *UNIVERSITÀ DEGLI STUDI DI MODENA E REGGIO EMILIA*, Italy.

Conference and Workshop

- 23 June–29 June 2019 **9th Slovenian International Conference on Graph Theory**, *Institute of Mathematics, Physics and Mechanics*, Bled.
<https://conferences.matheo.si/event/28/overview>
- September 2018–June 2019 **Discrete Mathematics Seminars**, *UNIVERSITÀ DI BRESCIA, MODENA E REGGIO EMILIA and VERONA*, Italia.
2019 Monthly seminars on Discrete Mathematics
- 22 July–16 August 2018 **SMI (Scuola Matematica Interuniversitaria)**, *UNIVERSITY OF PERUGIA*, Italia.
Attended the courses held by Juan Migliore (Univ. of Notre Dame, IN) "Commutative algebra and Geometry" and Francois Berteloot (Univ. of Toulouse, FR) "Complex Analysis"

Miscellaneous

- 2013 Finalist at Cesenatico in the "Italian Mathematical Olympics", team games
- 2012 Finalist in Perugia for the "Matematica e Realtà" project

Publications

- 2019 **AG codes from the second generalization of the GK maximal curve**, Montanucci M. and Pallozzi Lavorante V., *Discrete Mathematics*, Volume 343, Issue 5, 2020, 111810, ISSN 0012-365X, <https://doi.org/10.1016/j.disc.2020.111810>.

Computer skills

- Basic Phyton, CoCoa

Intermediate C, Wolfram Mathematica, Magma
Advanced L^AT_EX

Language

Italian Mother tongue

English B2

