



Matteo Penegini

Associate professor

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Education and training

2010

Doktor der Naturwissenschaften (DR.RER.NAT)

The classification of isotrivially fibred surfaces with $pgq2$ and topics on Beauville surfaces - Summa cum Laude

Universität Bayreuth - Bayreuth - DE

Academic experience

2010 - 2012

Post-Doctoral Fellow

Universität Bayreuth - Bayreuth - DE

2012 - 2015

Post-Doctoral Fellow

University of Milan - Milan - IT

Language skills

Italian

Mother tongue

English

Proficient

German

Proficient

French

Basic

Hungarian

Basic

Teaching activity

Lectures at the University of Genua:

2018 Geometria II (Algebraic Topology- Curve and Surfaces) Bachelor course in mathematics 48 hours total. Topics: Fundamental Group, Covering and curves and surfaces in R^3 . Number of students: 40.

2018 Geometria I (Algebraic Topology) Bachelor course in mathematics 60 hours total. Topics: General topology and classification of orientable surfaces.. Number of students: 40.

2017 Geometria II (Algebraic Topology) Bachelor course in mathematics 48 hours total. Topics: Fundamental Group, Covering and classification of orientable surfaces.. Number of students: 40.

2016 and 2017 Istituzioni di Geometria Superiore II (Algebraic Geometry) Master/Ph.D course in mathematics 72 hours total. Topics: Algebraic Varieties, Sheaf Theory and Algebraic Curves. Number of students: 11.

Lectures at the University of Bayreuth:

2011 Hauptseminar in Mathematik : "Lie-Gruppen: Zusammenspiel von Algebra, Geometrie und Analysis". A master level course, three hours per week. Topics: Differential manifolds and Lie groups. Number of students: 15.

2010 Vorbereitungskurs für das schriftliche Staatsexamen in Algebra. A master level course, three hours per week. Topics: Ring theory, group theory and Galois theory. Number of students: 20.

Exercises Classes at the University of Como Insubria

2014 Geometry, by Prof. Stoppino. A bachelor level course, three hours per week. Topics: Elementary Topology. Number of students: 20.

2015 Algebra 1, by Prof. Monti. A bachelor level course, three hours per week. Topics: set theory, groups, elementary number theory. Number of students: 20.

Exercises at the University of Milan

2012/13/14/15 Matematica del Continuo (Calculus 1), by Prof. Dr. Papparoni/Rusconi. A bachelor level course, four hours per week. Topics: limits, functions, derivation, integration and series: 100.

Exercises Classes at the University of Bayreuth

2011 Lineare algebra II, by Prof. Dr. I. Bauer. A bachelor level course, four hours per week. Topics: Jordan normal form, Ane, Projective and Euclidean spaces, classification of conics and quadrics, tensor and exterior algebras. Number of students: 40.

2010 Lineare algebra I, by Prof. Dr. I. Bauer. A bachelor level course, two hours per week. Topics: Vector Fields and Linear Maps. Number of students: 20.

2010 Analysis II by Prof. Dr. Simader. A bachelor level course, two hours per week. Topics: Measure theory and introduction to topology. Number of students: 20.

2009 A first course in number theory and algebraic structures by Prof. Dr. BauerCatanese. A bachelor level course, five hours per week. Topics: Ring theory and an introduction to algebraic number theory. Number of students: 40.

2009 Galois Theory by Prof. Dr. Bauer. A master level course, four hours per week. Topics: Group theory and Galois theory. Number of students: 40.

2008 A first course in number theory and algebraic structures by Prof. Dr. Bauer. A bachelor level course, five hours per week. Topics: Ring theory and an introduction to algebraic number theory. Number of students: 40.

2008 Lineare Algebra II by Prof. Dott. F. Catanese. A bachelor level course, four hours per week. Topics: Jordan normal form, Ane, Projective and Euclidean spaces, classification of conics and quadrics, tensor and exterior algebras. Number of students: 40.

2007-08 Lineare algebra I by Prof. Dott. F. Catanese. A bachelor level course, two hours per week. Topics: Vector Fields and Linear Maps. Number of students: 20.

Co-advisor for Master Thesis:

Dario Paneroni Superfici di tipo generale e theta caratteristiche, relatore Prof. Dr. G. Bini, Milan (2014).

Christian Gleissner Die Klassifikation der regulären Flächen isogen zu einem Produkt von Zwei Kurven mit $(OS) = 2$, advisor Prof. Dr. I. Bauer, Bayreuth

(2011).

Sascha Weigl Abelsche Überlagerungen der projektiven Ebene, verzweigt im speziellen Gradenkonfigurationen, advisor Prof. Dr. I. Bauer, Bayreuth (2011).

Postgraduate research and teaching activity

PhD committees membership

- 2017 - Member of Collegio dei Docenti del Dottorato of the University of Genova.

Postgraduate (PhD) teaching activity

Lectures at the University of Milan:

2013-14 Fibrations from Surfaces to Curves Ph.D. course in mathematics 8 hours total. Topics: Characterization of fibrations of surfaces in curves of low genus in particular $g(F) < 3$. Number of students: 10.

Research interests

- Complex Surfaces, in particular surfaces of general type and their moduli spaces;
- Geography of threefolds of general type.

Grants

2018 - ONGOING

Moduli spaces of algebraic varieties and related topics

Università Di Genova - IT

Principal investigator

Moduli spaces are one of the main research areas in algebraic geometry, and appear in different contexts. The two main kinds of moduli spaces we will be interested in are moduli spaces of algebraic varieties (curves and surfaces in particular), and moduli spaces of sheaves or of complexes of sheaves over algebraic varieties (on surfaces in particular).

2018 - ONGOING

FFABR - FONDO PER IL FINANZIAMENTO DELLE ATTIVITÀ BASE DI RICERCA

MIUR - IT

Principal investigator

Assignments abroad

- 2016 Visiting Professor at the Fudan University of Shanghai (Peop. Rep. China).
- 2014 Visiting Scholar at the Fudan University of Shanghai (Peop. Rep. China).

- 2014 “Riemann Fellow” at the Leibniz Universitaet Hannover (Germany).
- 2014 Participant at the “Junior Hausdorff Trimester Program” at the Hausdorff Research Institute for Mathematics HIM, Bonn (Germany).
- 2010 - 2012 Post-Doc in Mathematics at the University Bayreuth (Germany).
- 2006-2007 Pre-Doc in Mathematics at the University Bonn (Germany).