

Alessio Fiorentino

Curriculum Vitae

Education

- 2007–2011 **Ph.D. in Mathematics**, *University of Rome «La Sapienza»*.
2004–2007 **Master's Degree in Mathematics**, *University of Rome «La Sapienza»*.
cum laude
2001–2004 **Degree in Physics**, *University of Rome «La Sapienza»*.
cum laude

Ph.D. Thesis

- title *On gradients of odd theta functions in genus 2 and related topics*
advisor Riccardo Salvati Manni
subject Algebraic Geometry
description The work describes the structure of the ring of the modular forms and the ideal of the cusp forms with respect to a technical congruence subgroup naturally related to the theta gradient map in genus 2.

Master's Degree Thesis

- title *Compactifications of the moduli space of principally polarized abelian varieties*
(in Italian)
advisor Enrico Arbarello
subject Algebraic Geometry
description A review on the Satake compactification and the toroidal compactifications.

Degree in Physics

- title *Ergodic Properties of the dynamical systems*
(in Italian)
advisor Giovanni Jona Lasinio
subject Ergodic Theory
description A review on the basic ergodic theory with a focus on the Poisson suspensions and the Sinai billiards.

Workshops

- 2012 **Convegno CIRM e GNSAGA-INdAM «Progressi Recenti in Geometria Reale e Complessa»**, *Levico Terme (Trento), Italy*, (15/10/2012 - 19/10/2012)
Invited Speaker.
- 2008 **INdAM Workshop «Geometry of Projective Varieties»**, *University of Rome «La Sapienza», Rome, Italy*, (30/09/2008 - 04/10/2008).

Teaching Experiences

- 2010 **Teacher in Calculus**, *University of Rome «La Sapienza»*.
A basic course for Chemistry students with OFA.
- 2009 **Teacher Assistant in Algebra**, *University of Rome «La Sapienza»*.
A first course in abstract algebra for Mathematics students.
- 2008–2009 **Teacher Assistant in Geometry**, *University of Rome «Tor Vergata»*.
A basic course for Mechanical Engineering students.
- 2008 **Teacher Assistant in Linear Algebra**, *University of Rome «Tor Vergata»*.
A basic course for Mechanical Engineering students.

Languages

- Italian (Mother Tongue)
- English (Fluent)
- French (Basic)
- Mandarin Chinese (HSK Level 2 - 191/200)

Papers

- *A new geometric description for Igusa's modular form $(azy)_5$* , *Abhandlungen aus dem Mathematischen Seminar der Universität Hamburg* 83 n.1 (2013), 101-109
- *On a ring of modular forms related to the theta gradients map in genus 2*, *Journal of Algebra* 388 (2013), 81-100