MICHELE GRAFFEO

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EDU O	CATI	ON
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PhD in Geometry and Mathematical Physics at SISSA - Trieste (Italy)	10/2018-present
Thesis: "Hilbert schemes, constellations and resolutions of singularities"	
Supervisors: U. Bruzzo & A. T. Ricolfi	
Master of Science in Mathematics at University of Pisa - Pisa (Italy)	9/2015-9/2018
Thesis: " Koszul cohomology and Hilbert schemes of points"	
Supervisors: M. Franciosi	

Bachelor in Mathematics at *University of Pisa* - Pisa (Italy)

9/2010-5/2015

Thesis: "Il teorema degli zeri in algebre analitiche reali e complesse"

Supervisors: F. Acquistapace

Scientific High School diploma at *Liceo Scientifico "Enrico Fermi"* - Sciacca (Italy)

9/2003-8/2008

SISSA

RESEARCH INTERESTS

• Algebraic Geometry • Birational Geometry • Resolution of singularities • Hilbert schemes & Moduli spaces of sheaves • Representation theory • Toric Geometry • Enumerative Geometry • Minimal Model Program • Derived Category

PREPRINTS

• "On the Behrend function and the blowup of some fat points", with A. T. RICOLFI, 2022.

"Crepant resolutions of symplectic quotient singularities as moduli spaces of constellations"

TEACHING

T.A. for Mathematical Analysis at <i>University of Trieste, School of Engineering</i> - Trieste (Italy)	9/2021-present
T.A. for Mathematical Analysis at University of Trieste, School of Engineering - Trieste (Italy)	9/2020-2/2021
T.A. for Mathematical Analysis at University of Trieste, School of Engineering - Trieste (Italy)	9/2019-2/2020
T.A. for Mathematical Analysis at University of Pisa, School of Engineering - Pisa (Italy)	9/2017-2/2018
T.A. for Linear Algebra at University of Pisa, School of Engineering - Pisa (Italy)	9/2017-2/2018
T.A. for Linear Algebra at University of Pisa, School of Engineering - Pisa (Italy)	9/2016-2/2017

HELD SEMINARS & WRITTEN ESSAYS

• "Intersection theory and tautological ring of moduli space of curves"	SISSA
• "Intersection theory and tautological ring of moduli space of curves"	SISSA
• "Blowups: some properties and funny examples"	SISSA
• "Towards the Kodaira vanishing theorem"	SISSA
• "Playing with quotient singularities"	SISSA
• "The real nullstellensatz"	University of Pisa
• "Normalization of complex spaces"	University of Pisa

• Fifty-pages extended essay on "Markov's Theorem" based on in-class lectures and individual research

ATTENDED SCHOOLS & ADVANCED COURSES

• "Derived Functors" PhD course by U. Bruzzo	Fall 2020
• "Localisation in Enumerative Geometry" PhD course by A. T. Ricolfi	Fall 2019
• "Differentiable Orbifolds" PhD course by B. Fantechi	Fall 2019
• "Foliations in algebraic geometry" summer school at Istitut Fourier (Grenoble)	mmer 2019
• "Gauge Theory" PhD course by A. Tikhomirov	pring 2019
• "Advanced topics in algebraic geometry" PhD course by E. Arbarello	Fall 2018
• "Algebraic surfaces: the cubic surface, the Cayley cubic, lines on smooth surfaces" PhD course by F. Catanese	Fall 2018
• "Cones of divisors and positivity" PhD course by L. Lombardi	Fall 2018
• "Integrable systems from moduli spaces of stable curves" PhD course by P. Rossi	Fall 2018

LANGUAGES & IT SKILLS

- Italian: native; English: fluent; French: basic.
- Latex, Windows OS, Android OS, Microsoft application, Office suite (ECDL) (Advanced). Ubuntu, C programming language, Macaulay2 (Good command)

REFEREES

Ugo Bruzzo	Marco Franciosi	Andrea Tobia Ricolfi
SISSA	University of Pisa	University of Bologna
bruzzo@sissa.it	marco.franciosi@unipi.it	andreatobia.ricolfi@unibo.it

ORGANISATION OF EVENTS & OTHER TASKS

• Co-organiser of the Algebraic Geometry seminar in SISSA/IGAP

2020-21

• Co-organiser of the Algebraic Geometry seminar joint between SISSA and ICTP

2019-20

• Co-organiser of the Algebraic Geometry seminar in SISSA

2018-19

• Museum guide of a Mathematics exhibition named "Mathematics in ancient Greece"

Pisa (Italy) 2018

- Developed strong analytical, problem-solving and time management skills, throughout my PhD studies at SISSA.
- Proven excellent communication, coaching and leadership skills, when working as a teaching assistant.
- Learnt how to be a team-player and how to get the best from joint outcome when working in a group.
- Learnt how to work and deliver results in high-pressure situations, such as studying and working at the same time.
- Volunteer work with both the needy and the elderly.
- Interests and hobbies: music, politics and chess.