MICHELE GRAFFEO

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EDUCATION	
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
RESEARCH INTERESTS	
• Algebraic Geometry • Birational Geometry • Resolution of singularities • Hilbert schemes & Modul	i spaces of sheaves •
Representation theory • Toric Geometry • Enumerative Geometry • Minimal Model Program • Derived Ca	ategory
PREPRINTS	
• "Moduli spaces of $\mathbb{Z}/k\mathbb{Z}$ -constellations over \mathbb{A}^2 ".	2022
• "On the Behrend function and the blowup of some fat points", with A. T. RICOLFI.	2022
TEACHING	2022
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T.A. for Mathematical Analysis at University of Trieste, School of Engineering - Trieste (Italy)	9/2021-2/2022
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) HELD SEMINARS & POSTER SESSIONS & WRITTEN ESSAYS	9/2016-2/2017
 "GIT stability conditions on the space of G -Constellations" 	University of Milan
	University of Paraíba
 Poster session at the Workshop "Integrable Probability, Classical and Quantum Integrability" 	SISSA
	University of Utrecht
	University of Bologna
• "How to get your hands dirty with canonical singularities"	SISSA
• "Crepant resolutions of symplectic quotient singularities as moduli spaces of constellations"	SISSA
 "Introduction to K3 surfaces" "Moduli of representation of quivers and first examples of scattering diagrams" 	SISSA SISSA/ICTP
 Moduli of representation of quivers and first examples of scattering diagrams "Intersection theory and tautological ring of moduli space of curves" 	SISSA/TCTP
 "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	arch
ATTENDED SCHOOLS, WORKSHOPS & ADVANCED COURSES	
• "Recent Advances in Classical Algebraic Geometry" conference at Jagiellonian University (Krakow)	Summer 2022
• "Mini-workshop on Quiver Varieties and Related Topics" workshop at University of Oxford	Summer 2022
• "New Perspectives on Hyperkähler Manifolds" workshop at Levico Terme	Spring 2022
• "Moduli Spaces and Stability Conditions" school & workshop at Levico Terme	Spring 2022
• "Derived Functors" PhD course by U. Bruzzo	Fall 2020
• "Hilbert schemes, Mckay correspondence and singularities" winter school at Univ. Paris Diderot (Po	aris) Winter 2019

Fall 2019

Fall 2019

Summer 2019

• "Localisation in Enumerative Geometry" PhD course by A. T. Ricolfi

• "Foliations in algebraic geometry" summer school at Istitut Fourier (Grenoble)

• "Differentiable Orbifolds" PhD course by B. Fantechi

• "Gauge Theory" PhD course by A. Tikhomirov	Spring 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, html, Macaulay2 (Good command)

REFEREES

Ugo Bruzzo	Andrea Tobia Ricolfi
SISSA	SISSA
bruzzo@sissa.it	aricolfi@sissa.it

ORGANISATION OF EVENTS & OTHER TASKS

Co-organiser of the Algebraic Geometry seminar in SISSA	2021-22
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.