MICHELE GRAFFEO

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Home Page: https://graffeomichele.github.io

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EDUCATION		
PhD in Geometry and Mathematical Physics at SISSA - Trieste (Italy)	10/2018-present	
Thesis: " Zero-dimensional sheaves, group actions and blowups"		
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 <i>University of Pisa</i> - 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 & Modu	ıli spaces of sheaves •	
Representation theory • Toric Geometry • Enumerative Geometry • Minimal Model Program • Derived Geometry	=	
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		
T.A. for <i>Mathematical Analysis</i> at <i>University of Trieste</i> , <i>School of Engineering</i> - Trieste (Italy)	9/2022-present	
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)	9/2016-2/2017	
HELD SEMINARS & POSTER SESSIONS & WRITTEN ESSAYS	3/2010-2/2017	
• "GIT stability conditions on the space of G -Constellations"	University of Milan	
	l University of Paraíba	
• Poster session at the Workshop "Integrable Probability, Classical and Quantum Integrability"	SISSA	
• "Moduli spaces of $\mathbb{Z}/k\mathbb{Z}$ -constellations over the affine plane"	University of Utrecht	
• "On the Behrend function and the blowup of some fat points"	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"	SISSA	
"Moduli of representation of quivers and first examples of scattering diagrams"	SISSA/ICTP	
• "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" "The made with the words."	SISSA	
The real nullstellensatz" "Normalization of complex engage"	University of Pisa	
 "Normalization of complex spaces" Fifty-pages extended essay on "Markov's Theorem" based on in-class lectures and individual research 	University of Pisa	
ATTENDED SCHOOLS, WORKSHOPS & ADVANCED COURSES	Carcii	
	P. 11.00	
"Young Researchers Meeting in Algebra and Geometry 2022" conference at SISSA "Broad Advances in Classical Algebra in Constant" and Francisco Constant II and	Fall 2022	
"Recent Advances in Classical Algebraic Geometry" conference at Jagiellonian University (Krakow) "Minimum Related Tonics" workshop at University of Oxford		
"Mini-workshop on Quiver Varieties and Related Topics" workshop at University of Oxford "Topics" workshop on Quiver Varieties and Related Topics" workshop at University of Oxford	Summer 2022	

"Hilbert schemes, Mckay correspondence and singularities" winter school at Univ. Paris Diderot (Paris)
 "Localisation in Enumerative Geometry" PhD course by A. T. Ricolfi
 Fall 2019

Spring 2022

Spring 2022

Fall 2020

• "New Perspectives on Hyperkähler Manifolds" workshop at Levico Terme

• "Derived Functors" PhD course by U. Bruzzo

• "Moduli Spaces and Stability Conditions" school & workshop at Levico Terme

• "Differentiable Orbifolds" PhD course by B. Fantechi	Fall 2019
• "Foliations in algebraic geometry" summer school at Istitut Fourier (Grenoble)	Summer 2019
• "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. Catan	ese 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.
- Macaulay2, GAP, Latex, Unity, Windows OS, Android OS, Microsoft application, Office suite (ECDL) (Advanced), Ubuntu, C programming language, html.

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.