MICHELE GRAFFEO

SISSA, Via Bonomea 265, Trieste

mgraffeo@sissa.it

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 & Modu	li spaces of sheaves •
Representation theory • Toric Geometry • Enumerative Geometry • Minimal Model Program • Derived Co	Category
TEACHING	
T.A. for <i>Mathematical Analysis</i> at <i>University of Trieste, School of Engineering</i> - Trieste (Italy)	9/2021-present
T.A. for <i>Mathematical Analysis</i> at <i>University of Trieste, School of Engineering</i> - Trieste (Italy)	9/2020-2/2021
T.A. for <i>Mathematical Analysis</i> at <i>University of Trieste, School of Engineering</i> - 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 <i>University of Pisa, School of Engineering</i> - Pisa (Italy)	9/2017-2/2018
T.A. for Linear Algebra at University of Pisa, School of Engineering - Pisa (Italy) HELD SEMINARS & WRITTEN ESSAYS	9/2016-2/2017
	CICCA
 "Crepant resolutions of symplectic quotient singularities as moduli spaces of constellations" "Intersection theory and tautological ring of moduli space of curves" 	SISSA 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" "Normalization of complex spaces"	University of Pisa University of Pisa
 Fifty-pages extended essay on "Markov's Theorem" based on in-class lectures and individual rese 	
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) "The "Bl Description of the Control of th	Summer 2019
"Gauge Theory" PhD course by A. Tikhomirov "Adversed toxics in alcebraic groundty." PhD course by F. Ark and by	Spring 2019
 "Advanced topics in algebraic geometry" PhD course by E. Arbarello "Algebraic surfaces: the cubic surface, the Cayley cubic, lines on smooth surfaces" PhD course by F. 	Fall 2018 Catanese Fall 2018
 Augebraic surjaces: the cubic surjace, the cuying cubic, three on smooth surjaces. First course by 1: "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.	ntu C programming

• 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 Bologna University of Pisa 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 Pisa (Italy) 2018
- Museum guide of a Mathematics exhibition named "Mathematics in ancient Greece"
- 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.