Andrea T. Ricolfi

Assistant Professor (rtd-B) at SISSA, Trieste

Geometry and Mathematical Physics

Since 1/2/2022: abilitato professore di seconda fascia

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Professional Webpage

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EMPLOYMENT HISTORY & EDUCATION

Assistant Professor (rtd-B) at Università di Bologna9/2021-6/2022Postdoc at SISSA, Trieste (SISSA Mathematical Fellowship)11/2018-9/2021Postdoc at Max-Planck Institut für Mathematik, Bonn11/2017-10/2018PhD in Mathematics at University of Stavanger (UiS Norway)9/2013-10/2017

Thesis: Local Donaldson–Thomas invariants and their refinements

ISBN: 978-82-7644-734-7 ISSN: 1890-1387 PhD thesis no. 363. Available here <u>Trial Lecture</u>: *Symmetric obstruction theories and Joyce's perverse sheaves*

Advisors: Proff. Martin Gulbrandsen, Lars Halle

M.S. in Mathematics (ALGANT Program: Università di Padova & Université Bordeaux 1) 10/2010-7/2012

Thesis: Bertini's theorem on generic smoothness. Advisor: Prof. Qing Liu

VISITS AND SCOLARSHIPS

Imperial College London Visiting PhD (P.I. Prof. Richard Thomas)	2/2015-6/2015
University of Copenhagen 4 short term visits (P.I. Prof. Lars Halle)	2015-17
SISSA: – Dipartimenti di Eccellenza travel grant (as a postdoc): 9000 €	2018-21
– One month Research Scolarship	6/2013

RESEARCH INTERESTS

ullet Enumerative geometry of *moduli spaces of sheaves* (in a broad sense: motivic/refined/K-theoretic/enumerative invariants) ullet Hilbert and Quot schemes, Donaldson–Thomas invariants, virtual classes, virtual localisation ullet Moduli stacks of sheaves and of quiver representations, Joyce's d-critical loci ullet Grothendieck rings of varieties, Hall algebras

• Cohomology of moduli spaces of curves, tautological relations, compactified universal Jacobians

SUPERVISION

PhD students:

Michele Graffeo (SISSA). Co-supervised with Prof. Ugo Bruzzo.
 PhD thesis: Zero-dimensional sheaves, group actions and blowups.

25/11/2022

 $\circ~$ Solomiya Mizyuk (SISSA), co-supervised with Prof. Barbara Fantechi.

• Elisa Vitale (SISSA), co-supervised with Prof. Barbara Fantechi.

ongoing ongoing

Master students:

o Riccardo Redigolo (Università di Trieste)

ongoing

PUBLICATIONS

Articles

24. The geometry of double nested Hilbert schemes of points on curves, with M. Graffeo, P. Lella, S. Monavari and A. Sammartano.

Accepted for publication in Trans. Amer. Math. Soc. ArXiv

- 23. *On the stack of 0-dimensional coherent sheaves: structural aspects*, with B. FANTECHI. Accepted for publication in BIRS-CMO proceedings in LMS Lecture Note series. ArXiv
- 22. A sign that used to annoy me, and still does.

J. Geom. Phys. Vol. **195**, January 2024, 105032. [Journal]

- 21. *The d-critical structure on the Quot scheme of points of a Calabi–Yau 3-fold*, with M. SAVVAS. Commun. Contemp. Math. (2023). [Journal]
- 20. *On the Behrend function and the blowup of some fat points*, with M. GRAFFEO. Adv. Math., Vol. **415**, (2023), 108896. [Journal]
- 19. *Hilbert squares of degeneracy loci*, with E. Fatighenti, F. Meazzini, G. Mongardi. Rend. Circ. Mat. Palermo (2), **72** (2023), 3153–3183. [Journal]
- 18. *On the motive of the nested Quot scheme of points on a curve*, with S. Monavari. J. Algebra, Vol. **610**, (2022), 99–118. [Journal]
- 17. Higher rank motivic Donaldson–Thomas invariants of \mathbb{A}^3 via wall-crossing, and asymptotics, with A. CAZZANIGA and D. RALAIVAOSAONA.

Math. Proc. Cambridge Philos. Soc., Vol. 174, Issue 1 (2023), 97–122. [Journal]

- 16. *Sur la lissité du schéma Quot ponctuel emboîté*, with S. Monavari (in French). Canad. Math. Bull., Vol. **66**, Issue 1 (2023), 78–184 [Journal]
- 15. *Framed sheaves on projective space and Quot schemes*, with A. CAZZANIGA. Math. Z., **300** (2022), 745–760. [Journal]
- 14. *Framed motivic Donaldson–Thomas invariants of small crepant resolutions*, with A. CAZZANIGA. Math. Nachr., Vol. **295**, Issue 6 (2022), 1096–1112. [Journal]
- 13. *Higher rank K-theoretic Donaldson–Thomas theory of points*, with N. FASOLA and S. MONAVARI. Forum Math. Sigma, Vol. **9**, 2021, E15, 1–51. [Journal]
- 12. The equivariant Atiyah class.
 C. R. Math. Acad. Sci. Paris. Vol. **359**, Issue 3 (2021) 257–282. [Journal]
- 11. On the motive of the Quot scheme of finite quotients of a locally free sheaf. J. Math. Pures Appl., Vol. **144**, 2020, 50–68. [Journal]
- 10. Virtual classes and virtual motives of Quot schemes on threefolds. Adv. Math., **369** (2020) 107182. [Journal]
- 9. *The local motivic DT/PT correspondence*, with B. DAVISON. J. Lond. Math. Soc., Vol. **104**, Issue 3 (2021), 1384–1432. [Journal]
- 8. *Virtual counts on Quot schemes and the higher rank local DT/PT correspondence*, with S. BEENTJES. Math. Res. Lett., Vol. **28**, no. 4 (2021), 967–1032. [Journal]
- 7. *Pullbacks of universal Brill–Noether classes via Abel–Jacobi morphisms*, with N. PAGANI and J. VAN ZELM. Math. Nachr., Vol. **293**, Issue 11 (2020), 2187–2207. [Journal]
- 6. *The Hilbert scheme of hyperelliptic Jacobians and moduli of Picard sheaves.* Algebra Number Theory **14**, no. 6 (2020), 1381–1397. [Journal]
- 5. *Jet bundles on Gorenstein curves and applications*, with L. GATTO. J. Singul., Vol. **21** (2020), 50–83. [Journal]
- 4. *The DT/PT correspondence for smooth curves.* Math. Z., **290** (2018), no. 1-2, 699–710. [Journal]
- 3. *On coherent sheaves of small length on the affine plane*, with R. MOSCHETTI. J. Algebra, **516** (2018), 471–489. [Journal]
- 2. Local contributions to Donaldson–Thomas invariants. Int. Math. Res. Not. IMRN, **2018** (2018), no. 19, 5995–6025. [Journal]
- 1. The Euler characteristic of the generalized Kummer scheme of an Abelian threefold, with M. GULBRANDSEN. Geom. Dedicata, **182** (2016), Issue 1, 73–79. [Journal]

Preprints

- 1. The motive of the Hilbert scheme of points in all dimensions, with M. Graffeo, S. Monavari, R. Moschetti. 2024
- 2. Hyperquot schemes on curves: virtual class and motivic invariants, with S. Monavari. 2024
- 3. On the stack of 0-dimensional coherent sheaves: motivic aspects, with B. FANTECHI. 2024
- 4. On the stack of 0-dimensional coherent sheaves: structural aspects, with B. FANTECHI. 2024
- 5. Motivic classes of noncommutative Quot schemes. 2023
- 6. Indecomposability of derived categories in families, with F. BASTIANELLI, P. BELMANS and S. OKAWA. 2020
- 7. *Moduli spaces of semiorthogonal decompositions in families*, with P. Belmans and S. Okawa. With an appendix coauthored with W. LOWEN. 2020

Books

1. An invitation to modern enumerative geometry
Springer, SISSA lecture series, Vol. 3. — DOI: https://doi.org/10.1007/978-3-031-11499-1 12/2022

TALKS AT INTERNATIONAL CONFERENCES AND WORKSHOPS

Structures on the Quot scheme of points of a Calabi–Yau 3-fold
 Categorified Enumerative Geometry and Representation Theory (EPFL, Lausanne)
 d-critical structure(s) on the Quot scheme of points on a Calabi–Yau 3-fold

Higher Structures in Geometry and Mathematical Physics (IHP, Paris - online)

6/2023

Higher rank K-theoreric Donaldson–Thomas theory

IV Congresso Brasileiro de Jovens Pesquisadores em Matemática pura, aplicada e estatística (João Pessoa, Brazil)

aplicada e estatística (João Pessoa, Brazil)

• A tale of two d-critical structures

Young Researchers Meeting in Algebra and Geometry 2022 (SISSA, Trieste)

9/2022

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 The DT/PT correspondence for smooth curves (KTH, Stockholm) Counting rational curves on toric threefolds (Copenhagen) Families of Abel–Jacobi curves (Turin, Italy) Curve counting on threefolds (Bergen, Norway) Introduction to Motivic Integration (Imperial College London) 11/2017 12/2015 Introduction to Motivic Integration (Imperial College London) 	 The DT/PT correspondence for smooth curves (University of Edinburgh) 	1/2018
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 Families of Abel–Jacobi curves (Turin, Italy) Curve counting on threefolds (Bergen, Norway) Introduction to Motivic Integration (Imperial College London) 4/2015 		·
 Curve counting on threefolds (Bergen, Norway) Introduction to Motivic Integration (Imperial College London) 		•
	o Curve counting on threefolds (Bergen, Norway)	10/2015
 Refined curve counting on Calabi–Yau threefolds (KU Leuven) 3/2015 		
	 Refined curve counting on Calabi–Yau threefolds (KU Leuven) 	3/2015

 Localisation in Donaldson–Thomas theory (UCL, London) 	2/2015
o A Hamilton's Principle in Algebraic Geometry (Turin, Italy)	12/2014
• Curve Counting and Box Counting (Turin, Italy)	6/2014
 Curve Counting Invariants and Euler Characteristics (Bergen, Norway) 	2/2014
SELECTED SCHOOLS AND WORKSHOPS	
o Japanese-European Symposium on Symplectic Varieties and Moduli Spaces (Bologna–Tokyo)	3/2022
Ricercatori in Algebra e Geometria (Pisa)	9/2021
Enumerative Geometry, Physics and Representation Theory (IHES, Paris)	7/2021
 Winter School on Enumerative Geometry and Modular Forms (Frankfurt) 	2/2019
Curves, Sheaves and Moduli (Stavanger)	4/2018
 Workshop on Complex Algebraic Geometry – Pirola 60th (Barcellona) 	2/2018
 Enumerative Geometry Beyond Numbers (MSRI, Berkeley) 	1/2018
Modern Moduli Theory (Oxford)	9/2017
 British Algebraic Geometry (Cambridge) 	9/2017
Abel Symposium (Svolvær)	8/2017
 Stability conditions on triangulated categories and applications (Nordfjordeied) 	6/2016
 Varieties of Calabi–Yau type (Warsaw) 	4/2016
 Derived Categories and Moduli Spaces (Stavanger) 	9/2015
 PRAGMATIC Summer school on Moduli of curves and line bundles (Catania) 	7/2015
o GAeL 2015 (Leuven)	6/2015
Motivic invariants related to K3 and Abelian geometries (Berlin)	2/2015
Modern trends in Gromov–Witten theory (Hannover)	9/2014
o GAeL 2014 (SISSA)	6/2014
 Toric degenerations and Mirror Symmetry (Nordfjordeied) 	6/2014
TEACHING	
Algebraic Geometry (2 nd Year Master Università di Trieste and SISSA PhD)	Fall 2023
Algebraic Geometry (2 nd Year Master Università di Trieste and SISSA PhD)	Fall 2022
 Geometria e Algebra T; Bachelor Course (60 hours – Ingegneria Chimica e Biochimica, Bologn 	
 Localisation in Enumerative Geometry; PhD Course (20 hours – SISSA, Trieste) 	Spring 2021
 Techniques in Enumerative Geometry; PhD Course (20 hours – SISSA, Trieste) 	Fall 2019
• Algebraic Geometry MAT630 (Master course, University of Stavanger)	
·	Spring 2017
• T.A. for <i>Mathematical Methods 2</i> MAT200 (Bachelor, University of Stavanger)	Spring 2016
• T.A. for <i>Linear Algebra</i> MAT110 (Bachelor, University of Stavanger)	Fall 2015
Discrete Mathematics MAT120 (Bachelor, University of Stavanger)	Fall 2014
o T.A. for <i>Geometria e Algebra Lineare</i> (Politecnico di Torino)	Spring 2013
GRADUATION COMMITTEES	
I was part of the board examining the following theses.	
Master degree	
Luca Fiorindo (Università di Trieste)	20/7/2022
o Pietro Ciusa (Università di Trieste)	18/10/2022
o Dario Antolini (Università di Trieste)	23/10/2023
PhD degree	
Paolo Tomasini (SISSA)	6/12/2023
Warren Cattani (SISSA)	20/11/2023
Blessing Oni (ICTP & SISSA)	12/12/2022
	, , -
CONFERENCE ORGANISATION	
	6–10 May 2024
	22–26 May 2023
• Refined invariants in moduli theory (SISSA and Università di Trieste)	2–5 May 2023.
	27/2 – 3/3 2023
 Local organiser of the Workshop Derived Categories and Moduli Spaces (Stavanger) 	9/2015
SEMINAR ORGANISATION AND OTHER TASKS	
 Board member for the admission to the SISSA PhD program in Geometry and Math. Physics 	2/2023
Member of Collegio di Dottorato (SISSA)	7/2022-
 Co-organiser of TRINO, aka Triplice Seminario Triestino 	2022-
 Co-organiser of the Algebraic Geometry seminar (SISSA) 	2022-24
 Co-organiser of the Algebraic Geometry seminar (SISSA–University of Trieste) 	2020-21
 Co-organiser of the Algebraic Geometry seminar (SISSA–IGAP) 	2020-21
 Co-organiser of the Algebraic Geometry seminar (SISSA-ICTP) 	2019-20