# Andrea T. Ricolfi

#### **Associate Professor at SISSA**

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#### **EMPLOYMENT HISTORY & EDUCATION**

Assistant Professor (rtd-B) at SISSA7/2022-9/2024Assistant 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 <a href="here">here</a> <a href="here">Trial Lecture: Symmetric obstruction theories and Joyce's perverse sheaves</a>

Advisors: Proff. Martin Gulbrandsen, Lars H. Halle

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

# VISITS AND SCOLARSHIPS

Imperial College London Visiting PhD (P.I. Prof. Richard Thomas)2/2015-6/2015University of Copenhagen 4 short term visits (P.I. Prof. Lars H. Halle)2015-17SISSA: One month Research Scolarship6/2013

## **RESEARCH INTERESTS**

Enumerative geometry of moduli spaces of sheaves, Hilbert and Quot schemes, Donaldson–Thomas invariants, virtual classes, virtual localisation • Moduli stacks, quiver representations, d-critical loci, derived algebraic geometry • Grothendieck rings of varieties, motivic invariants, Hall algebras • Moduli spaces of curves, compactified Jacobians

## **SUPERVISION**

PhD students

○ Nicolò Bignami (SISSA), co-supervised with Prof. A. Marian.

○ Andrea Grossutti (SISSA), co-supervised with Prof. M. Del Zotto.

○ Solomiya Mizyuk (SISSA), co-supervised with Prof. B. Fantechi.

• Michele Graffeo (SISSA). Co-supervised with Prof. U. Bruzzo.

PhD thesis: Zero-dimensional sheaves, group actions and blowups.

Master students Defense date

Riccardo Redigolo (Università di Trieste), co-supervised with Prof. B. Fantechi.
 12/7/2024

## **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. Vol. **26**, No. 08, 2350038 (2024). [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* A<sup>3</sup> *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.
- 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. Motivic classes of noncommutative Quot schemes. 2023
- 5. Indecomposability of derived categories in families, with F. BASTIANELLI, P. BELMANS and S. OKAWA. 2020
- 6. 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 IN

TERNATIONAL CONFERENCES AND WORKSHOPS	
The motive of the Hilbert scheme of points	
From Schubert Calculus to Representation Theory (Aracaju, Brazil)	9/2024
Structures on the Quot scheme of points of a Calabi–Yau 3-fold	
Categorified Enumerative Geometry and Representation Theory (EPFL, Lausanne)	9/2023
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)	10/2022
A tale of two d-critical structures	
Young Researchers Meeting in Algebra and Geometry 2022 (SISSA, Trieste)	9/2022
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GAELXXII (SISSA, Trieste)  • Limits of Special Weierstrass Points National Algebra Meeting (Oslo)  SELECTED SEMINAR TALKS  **Prescription**  **O The motive of the Hilbert scheme of points (University of Utrecht)  • The motive of the Hilbert schemes, and the two numbers +1, -1 (Politecnico di Milano)  • Quot schemes and their d-critical structure(s) (Firenze)  • Enumerative invariants of Quot schemes and their virtual refinements (ICTP)  • Quot schemes and their d-critical structure(s) (Pisa)  • Quot schemes and their d-critical structure(s) (Pisa)  • Quot schemes and their d-critical structure(s) (Pisa)  • Refined schemes and their d-critical structure(s) (Bonn)  • Refined invariants of Quot schemes (Bonn)  • Refined invariants of moduli spaces (Mathematical Colloquium, João Pessoa, Brazil)  • Refined sheaf counting (Trento)  • Sheaf counting and Quot schemes (Milano)  • A motivic DT/PT correspondence (Lausanne)  • Sheaf counting and Quot scheme of points on a 3-fold (CMSA Harvard University)  • The d-critical structure on the Quot scheme of points on a 3-fold (SISSA, Trieste)  • Refinements of higher rank DT invariants (KISS Seoul, remote)  • Refinements of higher rank DT invariants (KISS Seoul, remote)  • Higher rank K-theoretic Donaldson-Thomas theory of points (Kansas University, remote)  • Higher rank K-theoretic Donaldson-Thomas theory of points (Kansas University, remote)  • Higher rank K-theoretic Donaldson-Thomas theory of points (UCSD San Diego, remote)  • Higher rank K-theoretic Donaldson-Thomas theory of points (UCSD San Diego, remote)  • Moduli of semiorthogonal decompositions (Stavanger)  • A motivic DT/PT correspondence via Quot schemes (Oxford)  • It with invariants of Quot schemes on 3-folds (Copenhagen)  • Virtual invariants of Quot schemes on 3-folds (Copenhagen)  • Virtual invariants of Quot schemes (Utrecht University of Edinburgh)  • Le schema de Hilbert d'une Jacobienne hypérelliptique (Nancy)  • The DT/PT correspondence for smooth curves (University of Edinburgh)  • The DT/PT corresponde	Moduli Spaces and Derived Categories (Warwick)	2/2015
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<ul> <li>Higher rank K-theoretic Donaldson-Thomas theory of points (Kansas University, remote)</li> <li>Higher rank K-theoretic Donaldson-Thomas theory of points (Bologna)</li> <li>10/2020</li> <li>A moduli space of semiorthogonal decompositions (Rutgers New Jersey, remote)</li> <li>Higher rank K-theoretic Donaldson-Thomas theory of points (UCSD San Diego, remote)</li> <li>Moduli of semiorthogonal decompositions (Stavanger)</li> <li>A motivic DT/PT correspondence via Quot schemes (Oxford)</li> <li>Virtual invariants of Quot schemes on 3-folds (Copenhagen)</li> <li>A component of the Hilbert scheme of hyperelliptic Jacobians (Rome)</li> <li>Le schéma de Hilbert d'une Jacobienne hypérelliptique (Nancy)</li> <li>Le schéma de Hilbert d'une Jacobienne hypérelliptique (Nancy)</li> <li>The DT/PT correspondence for smooth curves (University of Edinburgh)</li> <li>Curve counting via Quot schemes (Utrecht University)</li> <li>Curve counting rational curves on toric threefolds (Copenhagen)</li> <li>Counting rational curves on toric threefolds (Copenhagen)</li> <li>Families of Abel-Jacobi curves (Turin, Italy)</li> <li>Curve counting on threefolds (Bergen, Norway)</li> <li>Introduction to Motivic Integration (Imperial College London)</li> <li>4/2015</li> </ul>		·
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	o Curve counting on threefolds (Bergen, Norway)	10/2015
<ul> <li>Refined curve counting on Calabi–Yau threefolds (KU Leuven)</li> <li>3/2015</li> </ul>		
	<ul> <li>Refined curve counting on Calabi–Yau threefolds (KU Leuven)</li> </ul>	3/2015

<ul> <li>Localisation in Donaldson-Thomas theory (UCL, London)</li> <li>A Hamilton's Principle in Algebraic Geometry (Turin, Italy)</li> <li>Curve Counting and Box Counting (Turin, Italy)</li> <li>Curve Counting Invariants and Euler Characteristics (Bergen, Norway)</li> </ul>	2/2015 12/2014 6/2014 2/2014
TEACHING  Algebraic Geometry (2 <sup>nd</sup> Year Master Università di Trieste and SISSA PhD) Algebraic Geometry (2 <sup>nd</sup> Year Master Università di Trieste and SISSA PhD) Algebraic Geometry (2 <sup>nd</sup> Year Master Università di Trieste and SISSA PhD) Geometria e Algebra T; Bachelor Course (60 hours – Ingegneria Chimica e Biochimica, Bologo Localisation in Enumerative Geometry; PhD Course (20 hours – SISSA, Trieste) Techniques in Enumerative Geometry; PhD Course (20 hours – SISSA, Trieste) Algebraic Geometry MAT630 (Master course, University of Stavanger) TA. for Mathematical Methods 2 MAT200 (Bachelor, University of Stavanger) TA. for Linear Algebra MAT110 (Bachelor, University of Stavanger) Discrete Mathematics MAT120 (Bachelor, University of Stavanger) TA. for Geometria e Algebra Lineare (Politecnico di Torino)	Fall 2024 Fall 2023 Fall 2022
GRADUATION COMMITTEES  I was part of the board examining the following theses.  Master degree  • Dario Antolini (Università di Trieste)  • Pietro Ciusa (Università di Trieste)  • Luca Fiorindo (Università di Trieste)	23/10/2023 18/10/2022 20/7/2022
PhD degree  • Felix Thimm (University of Oslo)  • Simon Schirren (Roma Tre)  • Paolo Tomasini (SISSA)  • Warren Cattani (SISSA)  • Blessing Oni (ICTP & SISSA)	8/2024 5/2024 6/12/2023 20/11/2023 12/12/2022
<ul> <li>CONFERENCE ORGANISATION</li> <li>The geometry of Hilbert schemes of points (Levico Terme)</li> <li>Quiver Representations, Quiver Varieties and Combinatorics (Università di Bologna)</li> <li>Refined invariants in moduli theory (SISSA and Università di Trieste)</li> <li>Moduli spaces: theory and coding (Les Diablerets)</li> <li>Local organiser of the Workshop Derived Categories and Moduli Spaces (Stavanger)</li> </ul>	6–10 May 2024 22–26 May 2023 2–5 May 2023. 27/2 – 3/3 2023 9/2015
SEMINAR ORGANISATION AND OTHER TASKS	2/2023 7/2022- 2022- 2022- 2020-21 2020-21 2019-20