
ALICE RIZZARDO**CURRICULUM VITAE**

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Date of CV: April 3, 2020

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Nationality: Italian

Languages: Italian (native speaker), English (fluent), French (fluent), German (intermediate)

Employment:

2017 – Lecturer, University of Liverpool, UK
 2016 – 2017 EPSRC Postdoctoral Fellow, University of Edinburgh, UK
 2014 – 2015 Postdoctoral Research Fellow, University of Edinburgh, UK
 2013 Spring Postdoctoral Fellow, Mathematical Sciences Research Institute, Berkeley, USA
 2012 – 2014 and 2015 – 2016 Postdoctoral Research Fellow, International School for Advanced Studies (SISSA), Trieste, Italy

Education:

2006 – 2012 Ph.D. in Mathematics, Columbia University, USA. Supervisor: A. J. de Jong.
 2004 – 2006 Laurea Specialistica, Università di Bologna, Italy, *Summa cum laude*
 2001 – 2004 Laurea Triennale, Università di Bologna, Italy, *Summa cum laude*

As visitor

2005 Spring Visiting student, Université Paris 7 - Denis Diderot, Paris, France
 2004 Summer Student, Scuola Matematica Interuniversitaria, Perugia, Italy

Scientific/Academic Honors and Grants:

2019 Mar London Mathematical Society Scheme 1 Conference Grant, value: £2,000
 2016 – 2019 EPSRC Postdoctoral Fellowship Grant, value: £252,375
 2016 Jan Marie Curie Individual Fellowship Grant, proposal score: 98.60%, value: €183,454.80 (turned down in favor of EPSRC grant)
 2013 Nov ESF travel grant ‘Interactions of Low-Dimensional Topology and Geometry with Mathematical Physics (ITGP)’: *A new approach to lifting algebra actions via A_∞ -algebras techniques*, value: €1960
 2001 – 2006 Student of Collegio Superiore, School of Excellence of the University of Bologna, with a scholarship covering tuition, lodging, and a yearly grant.
 2001 – 2004 Scholarship, Istituto Nazionale di Alta Matematica “Francesco Severi”.

Research Interests:

Algebraic geometry, including derived categories, triangulated categories, Fourier-Mukai functors, homological algebra, homological projective duality.

Publications and Preprints:

- T. Raedschelders, A. Rizzardo and M. Van den Bergh, *New examples of non-Fourier-Mukai functors*, arXiv:1912.03555, submitted.
- A. Rizzardo and M. Van den Bergh, *A k -linear triangulated category without a model*, *Annals of Mathematics* 191 (2020) pp. 393–437.
- A. Rizzardo and M. Van den Bergh, *An example of a non-Fourier-Mukai functor between derived categories of coherent sheaves*, with an appendix by A. Neeman, *Inventiones Mathematicae* 216/3 (2019) pp. 927–1004.
- A. Rizzardo and M. Van den Bergh, *A note on non-unique enhancements*, *Proceedings of the American Mathematical Society* 147 (2019) pp. 451–453.
- A. Rizzardo, *Adjointness to a Fourier-Mukai functor*, *Advances in Mathematics* 322 (2017) pp. 83–96.
- A. Rizzardo, *Representability of cohomological functors over extension fields*, *J. Noncomm. Geom* 11/4 (2017) pp. 1267–1287.
- A. Rizzardo, *On the existence of Fourier-Mukai kernels*, *Mathematische Zeitschrift* 287 (2017) pp. 155–179.
- A. Rizzardo and M. Van den Bergh, *Scalar extensions of derived categories and non-Fourier-Mukai functors*, *Advances in Mathematics* 281 (2015), pp. 1100–1144.

Invited Lectures:

Forthcoming

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| 2021 | June | Abel Symposium “Triangulated categories in representation theory and beyond”, Ålesund, Norway |
| | Apr. | British Mathematical Colloquium, Glasgow, UK |
| 2020 | Nov. | Workshop “Derived, Birational, and Categorical Algebraic Geometry”, BIRS, Canada |
| | Sep. | Conference “Noncommutative Shapes”, in celebration of Michel Van den Bergh’s 60th birthday, Antwerp, Belgium |
| | Sep. | “Summer School on Derived and Triangulated Categories”, Wuppertal, Germany |
| Postponed | | Mini-course of 3 talks at the workshop “VBAC 2020: Integral functors, finite spaces and Krichever-Novikov algebras”, Salamanca, Spain |

Invited Talks

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| 2019 | Aug. | Workshop “New Structures in Algebraic Geometry and their Symplectic Interpretations”, Fields Institute, Toronto, Canada |
| | Jun. | Workshop “Derived Categories, Moduli Spaces and Deformation Theory”, Cetraro, Italy |
| | Jun. | Lecture series in the Summer school “Strong homotopy methods in homological algebra”, Nordfjordeid, Norway |
| | May | COW meeting, Cardiff University |
| | Apr. | British Mathematical Colloquium, Lancaster, UK |
| | Jan. | KCL/UCL Geometry seminar |
| 2018 | Nov. | Algebraic Geometry seminar, University of Glasgow, UK |
| | Sep. | Young Person’s COW meeting, Imperial College, London, UK |
| | Jun. | Workshop “The arithmetic of Derived Categories”, CIRM, Trento, Italy |

- May Workshop “Interactions between Algebraic Geometry and Noncommutative Algebra”, Oberwolfach, Germany
- Mar. Algebra Seminar, University of Leeds, UK
- 2017 Dec. Workshop “A-infinity structures in geometry and representation theory”, HIM Bonn, Germany
- Nov. Workshop on IHS manifolds and stability conditions, University of Bologna, Italy
- Oct. Mathematics - String Theory seminar, IPMU, Japan
- Sep. RIMS workshop: Noncommutative algebraic geometry and related topics, Kyoto University, Japan
- Sep. Workshop “Algebraic Geometry in Torino”, Italy
- Jul. GQT Colloquium, the Netherlands
- May Algebraic Geometry Seminar, University of Bergen, Norway
- May “Triangulated categories and geometry - a conference in honour of Amnon Neeman”, Bielefeld, Germany
- Feb. Algebraic Geometry Seminar, Université de Toulouse, France
- 2016 Nov. Joint ARTIN seminar, Lancaster, UK
- Aug. Advanced School and Workshop on Moduli Spaces, Mirror Symmetry and Enumerative Geometry, ICTP, Trieste, Italy
- Jun. GVA2016, Geometry and Classification of Algebraic Varieties, Levico Terme, Trento, Italy
- May Algebraic Geometry Seminar, Humboldt Universität zu Berlin, Germany
- 2015 Jul. Workshop “Geometric Algebra: Bridges between commutative algebra, noncommutative geometry and representation theory”, Fields Institute, Toronto, Canada
- Jun. Workshop “VBAC2015: Fourier-Mukai, 34 years on”, University of Warwick, UK
- Jun. GLEN, Glasgow-Liverpool-Edinburgh-Newcastle algebraic geometry seminar, UK
- Feb. Algebraic Geometry Seminar, Università di Milano, Italy
- Feb. EDGE Geometry Seminar, University of Edinburgh, UK
- 2014 Dec. Xmas Workshop 2014 on Moduli Spaces and Integrable Systems, Università di Genova, Italy
- Feb. Higher Structures in Algebraic Analysis Workshop, Università di Padova, Italy
- 2013 Nov. Algebra Seminar, University of Antwerp, Belgium
- May Noncommutative Algebraic Geometry and Representation Theory Seminar, MRSI, Berkeley, USA
- Apr. Algebra Seminar, University of Southern California, USA
- 2012 Dec. Seminario di Natale, Università di Milano, Italy
- Dec. Christmas Workshop on Moduli Spaces and Integrable Systems, Università di Genova, Italy
- 2011 Nov. Algebraic Geometry Seminar, Brown University, USA
- Oct. Algebra Seminar, Rutgers University, USA

Supervision and leadership experience:

I currently supervise a Ph.D. student (Felix Küng, started 09/2018). I have supervised one summer undergraduate project student (Laura Vetter, 2015) and a master student’s project (Michael O’Shea, 2018). I have moreover supervised five working seminars on topics related to my research, attended by undergraduate students, graduate students, postdocs and faculty.

Teaching Experience:

Classes taught

- 2020 Spring Differential Geometry, University of Liverpool
- 2019 Fall Representation theory of finite groups, University of Liverpool
- 2012 Summer Calculus II, Columbia University
- 2010 Spring Calculus II, Columbia University
- 2009 Fall Calculus I, Columbia University
- 2009 Summer Calculus I, Columbia University

Teaching assistant

- 2018 Fall Mathematical IT skills, University of Liverpool
- 2015 Spring Fundamentals of Pure Mathematics, University of Edinburgh
- 2012 Spring Supervision of Undergraduate Seminar on Percolation Theory, Columbia University
- 2011 Fall Introduction to Higher Mathematics, Columbia University
- 2011 Spring Calculus II, Columbia University
- 2010 Fall Honors Linear Algebra, Columbia University
- 2009 Spring Analysis and Optimization, Columbia University
- 2008 Fall Analysis and Optimization, Columbia University
- 2008 Spring Linear Algebra, Columbia University
- 2007 Fall Calculus I, Columbia University

Professional Activities and Outreach:

Main organizer for the weeklong conference *The Geometry of Derived Categories* (Liverpool, September 2019). Local organizer for the GLEN algebraic geometry network. Local organizer for the conference *Géométrie Algébrique en liberté*, the biggest European algebraic geometry conference for graduate students and postdocs (SISSA, June 2014).

Contributor to the Stacks Project. Reviewer for IMRN, the Kyoto Journal of Mathematics and Arnold Mathematical Journal, quick opinion for *Mathematische Zeitschrift*.

Outreach to high school students: lectured in local high schools to prepare students for the Math Olympiads (Spring 2014).

Other Activities:

- 2009 – 2010 Women in Science at Columbia, Department Representative.
- 2011 Spring Consulting for the San Marino Embassy to the United Nations.