Curriculum Vitae

Chiara Damiolini

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Research interests

- Vertex operator algebras and sheaves of conformal blocks in algebraic geometry.
- Moduli spaces of curves, of coverings of curves, and their compactifications.
- Moduli spaces of (parahoric) bundles on curves.

Employment —	
University of Pennsylvania Postdoctoral Fellow	09/2021 - current
Rutgers University Hill Assistant Professor	07/2020 - 08/2021
Princeton University Instructor	07/2019 - 06/2020
Princeton University Lecturer	09/2018 - 06/2019
Rutgers University Visiting post doctoral position	Spring 2018
Education —	
Universität Duisburg-Essen PhD Thesis: Conformal blocks attached to twisted groups	2013 - 2017
PhD	2013 - 2017 2011 - 2013

Publications and Preprints —

On equivariant bundles and their moduli spaces

https://arxiv.org/abs/2109.08698 Submitted

On global generation of vector bundles on the moduli space of curves from representations of vertex operator algebras

https://arxiv.org/abs/2107.06923 Submitted with A. Gibney

Permutohedral complexes and rational curves with cyclic action

https://arxiv.org/abs/2104.06526

with E. Clader, D. Huang, S. Li and R. Ramadas

Submitted

Vertex algebras of CohFT-type

Accepted for publication in Facets of Algebraic Geometry

https://arxiv.org/abs/1910.01658

with A. Gibney and N. Tarasca

On factorization and vector bundles of conformal blocks from vertex algebras

https://arxiv.org/abs/1909.04683

with A. Gibney and N. Tarasca

Submitted

Conformal blocks from vertex algebras and their connection on $\overline{M}_{g,n}$

Geom. Topol. 25 (2021), no. 5, 2235-2286

https://arxiv.org/abs/1901.06981

with A. Gibney and N. Tarasca

Conformal blocks attached to twisted groups *Math. Z. 295 (2020), no. 3-4, 1643–1681*

https://arxiv.org/abs/1707.04448

Invited talks and conferences —

University of Warsaw String Math 2022 Conference	07/2022
VBAC - Vector Bundles on Algebraic Curves Stacks and Good Moduli Spaces	03/2022
IMPA, Rio de Janeiro International Workshop on Representation theory, Vertex and Chiral Algebras	03/2022
2021 CMS Winter Meeting Combinatorics and Geometry of Moduli Spaces	12/2021
University of North Carolina at Chapel Hill Geometric Methods in Representation Theory seminar	10/2021
Universität Hamburg Research Seminar Algebra and Mathematical Physics	10/2021
Technische Universität Darmstadt Conference on Vertex Algebras and related topics	09/2021
Universität Duisburg-Essen Oberseminar	05/2021

Università Roma 3 Seminar of Geometry	04/2021
Rutgers University Lie Groups/Quantum Mathematics seminar	04/2021
MIT Harvard-MIT Algebraic geometry seminar	03/2021
ICERM Geometry and combinatorics from root systems	03/2021
University of Colorado, Boulder Rocky Mountain Representation Theory Seminar	12/2020
Colorado State University Fragment Seminar	10/2020
University of Washington, Seattle Algebra and Algebraic Geometry Seminar and Pre-Seminar	01/2020
Goethe-Universität, Frankfurt am Main Oberseminar Algebra und Geometrie	12/2019
Yale University Geometry, symmetry and physics seminar	04/2019
Auburn university AMS Sectionals	03/2019
ICTP, Trieste TAGSS II - Summer School on Geometry of Moduli Spaces of Curves Working group leader	07/2018
Princeton University Algebraic geometry seminar	04/2018
University of California San Diego Algebraic geometry seminar	04/2018
Rutgers university AGNES: Algebraic Geometry Northeastern Series	04/2018
Rutgers university Algebra seminar	04/2018
University of North Carolina at Chapel Hill Geometric Methods in Representation Theory seminar	03/2018
University of Pennsylvania Geometry and Physics seminar	02/2018
University of Bath Géométrie Algébrique en Liberté Poster session	06/2017
Universität Duisburg-Essen Vector Bundles on Algebraic Curves	09/2017

Max-Planck-Institut für Mathematik, Bonn Graduate school on moduli spaces

09/2015

Held one of the courses

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Teaching	experience
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reaching experience	
Instructor of the course Math 151 Rutgers University, virtual	Spring 2021
Instructor of the course Math 151 Rutgers University, virtual	Fall 2020
Instructor of the course MAT175 Princeton University Course Head Departmental Teaching Award	Spring 2020
Instructor of the course MAT103 Princeton University Exam Prep section	Fall 2019
Instructor of the course MAT175 Princeton University	Spring 2019
Instructor of the course MAT175 Princeton University	Fall 2018
TA of Math 135 Rutgers University	Spring 2018
TA of Algebraic Topology Universität Duisburg-Essen	Spring 2014
Tutor of Algebra 1 Università degli Studi di Milano	Spring 2012
Service	

Service

with F. Binda

Organized Seminars and Conferences	
Bundles and Conformal Blocks with a Twist ICMS Edinburgh, https://www.icms.org.uk/events/workshops/BCBT with J. Martens and S. Mukhopadhyay	2022
Algebra Seminar Rutgers University, virtual with I. Coley and F. Rota	2020, 2021
Algebraic geometry seminar Joint seminar: Princeton University and IAS with R. van Dobben de Bruyn	2019
Annual meeting of graduate students SFB/TR 45 Integrated Research Training Group	2016

Reading course on Linear Algebraic Groups PhD students seminar at Universität Duisburg-Essen with N. uit de Bos	2015
Outreach	
How to apply for a postdoc in Europe? Early career section of the Notices of the AMS with F. Binda	2020
Videos for Connect+Solve Princeton University part of the Freshman Scholars Connect program	2019
Archive Project Princeton University create a versatile archive of Calculus exams	2019, 2020
Mathematics in English Scuole Medie di Cedegolo and Ponte di Legno, Italy teaching mathematics in English in Italian middle schools	2017, 2018
Selected attended conferences, workshops and schools —	
Moduli spaces beyond geometric invariant theory AIM (virtual)	01/2021
Women in Algebraic Geometry - Workshop ICERM (virtual)	07/2020
Moduli spaces, representation theory and quantization Research Institute for Mathematical Sciences, Kyoto	06/2019
Higgs bundles and related topics Université de Nice	05/2017
Geometry, Topology and Dynamics of Moduli Spaces Institute of Mathematical Sciences, National University of Singapore	08/2016
Summer School: Algebraic Stacks and Related Topics Johannes Gutenberg Universität Mainz	08/2015
2015 Summer Research Institute on Algebraic Geometry University of Salt Lake City	07/2015
Triple Masterclass by Nitin Nitsure, Indranil Biswas and Vikraman Balaji Centre for Quantum Geometry of Moduli Spaces, Aarhus Universitet	06/2014
Conformal blocks, vector bundles on curves and moduli of curves Università Sapienza, Rome	09/2013