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 Texas at Austin
Assistant Professor
01/2023 -

University of Pennsylvania
Postdoctoral Fellow
09/2021 - 12/2023

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

Università degli studi di Milano - Universiteit Leiden
Algant Master
Thesis: The braid group and the arc complex
2011 - 2013

Università degli Studi di Milano
Bachelor in Mathematics
Thesis: Categorical Galois theory
2008 - 2011

Publications and Preprints

Wonderful compactification and rational curves with cyclic action
https://arxiv.org/abs/2208.05463   with E. Clader, S. Li and R. Ramadas

Factorization resolutions
https://arxiv.org/abs/2207.05110   with A. Gibney and D. Krashen

On equivariant bundles and their moduli spaces
https://arxiv.org/abs/2109.08698

On global generation of vector bundles on the moduli space of curves from representations of vertex
operator algebras
Accepted for publication in Algebr. Geom.
https://arxiv.org/abs/2107.06923   with A. Gibney

Permutohedral complexes and rational curves with cyclic action
Accepted for publication in Manuscripta Mathematica
https://arxiv.org/abs/2104.06526   with E. Clader, D. Huang, S. Li and R. Ramadas

Vertex algebras of CohFT-type
Facets of algebraic geometry. Vol. I, 164–189, London Math. Soc. Lecture Note Ser., 472
https://arxiv.org/abs/1910.01658   with A. Gibney and N. Tarasca

On factorization and vector bundles of conformal blocks from vertex algebras
Accepted for publication in Ann. Sci. Éc. Norm. Supér.
https://arxiv.org/abs/1909.04683   with A. Gibney and N. Tarasca

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

Oxford University   05/2022
Research seminar

VBAC - Vector Bundles on Algebraic Curves   03/2022
Stacks and Good Moduli Spaces

IMPA, Rio de Janeiro   03/2022
International Workshop on Representation theory, Vertex and Chiral Algebras

2021 CMS Winter Meeting   12/2021
Combinatorics and Geometry of Moduli Spaces

University of North Carolina at Chapel Hill   10/2021
Geometric Methods in Representation Theory seminar

Universität Hamburg   10/2021
Research Seminar Algebra and Mathematical Physics

Technische Universität Darmstadt	09/2021
Conference on Vertex Algebras and related topics	
Universität Duisburg-Essen	05/2021
Oberseminar	
Università Roma 3	04/2021
Seminar of Geometry	
Rutgers University	04/2021
Lie Groups/Quantum Mathematics seminar	
MIT	03/2021
Harvard-MIT Algebraic geometry seminar	
ICERM	03/2021
Geometry and combinatorics from root systems	
University of Colorado, Boulder	12/2020
Rocky Mountain Representation Theory Seminar	
Colorado State University	10/2020
Fragment Seminar	
University of Washington, Seattle	01/2020
Algebra and Algebraic Geometry Seminar and Pre-Seminar	
Goethe-Universität, Frankfurt am Main	12/2019
Oberseminar Algebra und Geometrie	
Yale University	04/2019
Geometry, symmetry and physics seminar	
Auburn university	03/2019
AMS Sectionals	
ICTP, Trieste	07/2018
TAGSS II - Summer School on Geometry of Moduli Spaces of Curves	
Working group leader	
Princeton University	04/2018
Algebraic geometry seminar	
University of California San Diego	04/2018
Algebraic geometry seminar	
Rutgers university	04/2018
AGNES: Algebraic Geometry Northeastern Series	
Rutgers university	04/2018
Algebra seminar	
University of North Carolina at Chapel Hill	03/2018
Geometric Methods in Representation Theory seminar	
University of Pennsylvania	02/2018
Geometry and Physics seminar	
University of Bath	06/2017
Géométrie Algébrique en Liberté	
Poster session	

Universität Duisburg-Essen	09/2017

Vector Bundles on Algebraic Curves

Universität Freiburg	02/2017

Third meeting for young women in mathematics

Max-Planck-Institut für Mathematik, Bonn	09/2015

Graduate school on moduli spaces
Held one of the courses

Teaching experience

Reading course in Algebraic Geometry	Spring 2022

University of Pennsylvania

Instructor of Math 151	Spring 2021

Rutgers University, virtual

Instructor of Math 151	Fall 2020

Rutgers University, virtual

Instructor of MAT175	Spring 2020

Princeton University
Course Head
Departmental Teaching Award

Instructor of MAT103	Fall 2019

Princeton University
Exam Prep section

Instructor of MAT175	Spring 2019

Princeton University

Instructor of MAT175	Fall 2018

Princeton University

TA of Math 135	Spring 2018

Rutgers University

TA of Algebraic Topology	Spring 2014

Universität Duisburg-Essen

Tutor of Algebra 1	Spring 2012

Università degli Studi di Milano

Service

Organized Seminars and Conferences

Bundles and Conformal Blocks with a Twist	2022

ICMS Edinburgh, `https://www.icms.org.uk/events/workshops/BCBT`
with J. Martens and S. Mukhopadhyay

Algebra Seminar	2020, 2021

Rutgers University, virtual

with I. Coley and F. Rota

Algebraic geometry seminar 2019
Joint seminar: Princeton University and IAS
with R. van Dobben de Bruyn

Annual meeting of graduate students 2016
SFB/TR 45 Integrated Research Training Group
with F. Binda

Reading course on Linear Algebraic Groups 2015
PhD students seminar at Universität Duisburg-Essen
with N. uit de Bos

Outreach

How to apply for a postdoc in Europe? 2020
Early career section of the Notices of the AMS
with F. Binda

Videos for Connect+Solve 2019
Princeton University
part of the Freshman Scholars Connect program

Archive Project 2019, 2020
Princeton University
create a versatile archive of Calculus exams

Mathematics in English 2017, 2018
Scuole Medie di Cedegolo and Ponte di Legno, Italy
teaching mathematics in English in Italian middle schools

Selected attended conferences, workshops and schools ————

Moduli spaces beyond geometric invariant theory 01/2021
AIM (virtual)

Women in Algebraic Geometry - Workshop 07/2020
ICERM (virtual)

Moduli spaces, representation theory and quantization 06/2019
Research Institute for Mathematical Sciences, Kyoto

Higgs bundles and related topics 05/2017
Université de Nice

Geometry, Topology and Dynamics of Moduli Spaces 08/2016
Institute of Mathematical Sciences, National University of Singapore

Summer School: Algebraic Stacks and Related Topics 08/2015
Johannes Gutenberg Universität Mainz

2015 Summer Research Institute on Algebraic Geometry 07/2015
University of Salt Lake City

Triple Masterclass by Nitin Nitsure, Indranil Biswas and Vikraman Balaji 06/2014

Centre for Quantum Geometry of Moduli Spaces, Aarhus Universitet

Conformal blocks, vector bundles on curves and moduli of curves   09/2013
Università Sapienza, Rome

Languages

English	Italian	German	French
Fluent	Native	Intermediate	Basic

August 31, 2022