

Personal information

02/07/1994, Maglie (LE), Italy
Via C. Procaccini, 22, 40129, Bologna (BO), Italia
martina.costacesari2@unibo.it, +39 3203264462
<https://sites.google.com/view/martinacostacesari>

Education

- 20/03/2024 **PhD**, Università di Padova, Padova.
Thesis: "Some stratifications on algebraic varieties"
Advisors: G. Carnovale and F. Esposito.
- 13/03/2020 **Master degree in Pure Mathematics**, Università di Pisa. 110/110 cum laude
Thesis: Le coordinate di Plücker per la Grassmanniana affine.
Advisors: Andrea Maffei
- 22/07/2016 **Bachelor degree in Pure Mathematics**, Università del Salento. 110/110 cum laude
Thesis: Le rappresentazioni del gruppo lineare in caratteristica finita
Advisor: Rocco Chirivì
- 2008-2013 **High school diploma**, Liceo Classico Statale "F. Capece", Maglie

Experiences

- 04/2024– **Post-doctoral fellowship at University of Bologna**
- 04/23-07/23 **Visiting at University of Cologne**
I worked with Prof. P. Littelmann on the theory of Seshadri stratifications
- 04/22-01/24 **Organizing committee of the Reading group - Fuori dagli schemi**
- 10/23– **Organizing committee of the seminars "MiC: Mathematics in Conversation" at University of Padova**
- 01/23-05/23 **Organizing committee of "Infinite dimensional Lie Algebras: a workshop in honour of Ivan Penkov"**
- 23-27/05/22 **Volunteer in the organization of the conference "100UMI-800UniPd"**
- 09/2022 **Teaching at "Preparatory Mathematics Course" at Department of Statistical Sciences**
- 2022-2024 **Part-time tutor - School of Science at Padova University**
I work as a tutor for the Algebra 1 course for undergraduate Mathematics students during the 2022/2023 and 2023/2024 academic years.
- 2021 **Part-time tutor - School of Science at Padova University**
I work as a tutor for the Geometria 1 course for undergraduate Physics students during the 2021/2022 academic year.
- 01/19-05/20 **Part-time tutor - Department of Computer Science**

Research publications

- Costa Cesari M., *Jordan classes and Lusztig strata in disconnected reductive groups*. Journal of Algebra, Volume 634, 2023, Pages 626-649, ISSN 0021-8693, <https://doi.org/10.1016/j.jalgebra.2023.06.046>.
- Costa Cesari M. and Costantini M. (2023), *On Lusztig's map for spherical unipotent conjugacy classes in disconnected groups*. Bull. London Math. Soc.. <https://doi.org/10.1112/blms.12809>

Seminars

- 24/07/2024 **Talk for the conference "Joint meeting AMS-UMI Palermo 2024" at University of Palermo**
 "Seshadri stratifications: an application to matrix Schubert variety"
- 18/06/2024 **Talk for "Seminario di Algebra e Geometria" at University of Bologna**
 "Seshadri stratifications: an application to matrix Schubert variety"
- 11/06/2024 **Talk for "Young Algebraist Meetings in Sapienza" at Sapienza Università di Roma**
 "Seshadri stratifications: an application to matrix Schubert variety"
- 04/06/2024 **Talk for the summer school "GRADuate International School in COmbinatorics" Volterra 2024**
 "Seshadri stratifications: an application to matrix Schubert variety"
- 04/10/2023 **Talk for "Graduate Seminar" at University of Padova**
 "An introduction to Non-Connected algebraic groups and their partitions in Jordan classes and Lusztig strata"
- 04/07/2023 **Talk at Oberseminar in Algebra at FSU Jena**
 "Jordan classes and Lusztig strata in disconnected reductive groups"
- 20/02/2023 **Talk for the conference "Geometry, Algebra and Combinatorics of Moduli Spaces and Configurations V, Dobbiaco (Toblach)"**
 "Jordan classes and Lusztig strata in disconnected reductive groups"

Attended Conferences

- 23-24/07/2024 **"Joint meeting AMS-UMI Palermo 2024"**
- 3-7/06/2024 **"GRADuate International School in COmbinatorics" Volterra (PI), Italy**
- 8-9/12/2023 **"Representation theory in Cologne - A workshop in honor of Peter Littelmann**
- 27/8-1/9/23 **"Geometric Representation Theory and W-algebras"**
- 24-29/7/23 **"Algebraic groups and their representations, an LMS research school"**
- 20-24/2/2023 **"Winter School Geometry, Algebra and Combinatorics of Moduli Spaces and Configurations V, Dobbiaco (Toblach)"**
- 23-27/5/2022 **Conference 100 UMI-800 UniPd**
- 6-10/9/2021 **"Young Algebraists' Conference 2021"**
- 16-19/9/2019 **"Representation theory in Venice. A conference in honor of Corrado De Concini"**

Skills

Language skills

Italian	Mother tongue
English	Advanced
French	Basic

Computer skills

Matlab	Intermediate
LaTeX	Intermediate
C Language	Intermediate