

# Eugenio Landi

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## Personal information

Name: **Eugenio**  
Last Name: **Landi**  
Date of birth: **26 May 1994**  
Nationality: **Italian**  
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## Current position

June 2023 - now **Postdoctoral researcher**, *Dipartimento di Matematica - Guido Castelnuovo, Università degli studi di Roma - La Sapienza*

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## Past positions

August 2022 - **Adjunct researcher**, *Eberly College of Science, Department of Mathematics, Pennsylvania State University*

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## Education

- 2018 - 2022 **Ph.D. in Mathematics**, *Università di Roma Tre*, cum laude, thesis title: “Equivariant localization methods, orientations and modularity”, under the supervision of Domenico Fiorenza
- 2016 - 2018 **Master Degree in Mathematics**, *Università la Sapienza, Rome*, 110/110 cum laude, thesis title: “The Landweber Exact Functor Theorem and Elliptic Cohomology”, under the supervision of Domenico Fiorenza
- 2013 - 2016 **Bachelor Degree in Mathematics**, *Università la Sapienza, Rome*, 110/110 cum laude, thesis title: “Il Gruppo di Cremona”, (“The Cremona Group”), under the supervision of Kieran O’Grady

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## Papers and preprints

- M. Coloma, D. Fiorenza, E. Landi, *An exposition of the topological half of the Grothendieck-Hirzebruch-Riemann-Roch theorem in the fancy language of spectra*, *Expositiones Mathematicae*. <https://doi.org/10.1016/j.exmath.2021.11.003>, arXiv:1911.12035
- M. Coloma, D. Fiorenza, E. Landi, *A very short note on the (rational) graded Hori map*, *Communications in Algebra*. <https://doi.org/10.1080/00927872.2021.2005076>, arXiv:2003.13066
- M. Coloma, D. Fiorenza, E. Landi, *The (anti-)holomorphic sector in  $\mathbb{C}/\Lambda$ -equivariant cohomology, and the Witten class*, *Journal of Geometry and Physics*. <https://doi.org/10.1016/j.geomphys.2023.104750>, arXiv:2106.14945
- D. Fiorenza, E. Landi, *Integrals detecting degree 3 string cobordism classes*. <https://doi.org/10.1007/s40574-023-00378-4>, arXiv:2209.12933

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## Teaching Experiences

- 2019 - 2020 **Teaching Assistant**, Geometry, Department of Basic and Applied Sciences for Engineering (SBAI), Università degli studi di Roma “La Sapienza”, Clinical engineering.
- 2019 - 2020 **Teaching Assistant**, Geometry, Department of Basic and Applied Sciences for Engineering (SBAI), Università degli studi di Roma “La Sapienza”, Building engineering.
- August 2022 - December 2022 **Lecturer**, Math220 - Matrices, Eberly College of Science, Pennsylvania State University.

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## Invited Talks

- The Witten genus as the “volume” of the double loop space, 18/03/2021, KCL/UCL Junior Geometry seminar. London, online;
- Equivariant localization methods, orientations and modularity, 19/04/2022, GAP (Geometry, Algebra, Physics) Seminar. Pennsylvania State University, online;
- Lecture on Model Categories, 10/05/2022, Preparatory informal seminar on the Geometric Cobordism Hypothesis, online;
- Equivariant localization methods, orientations and modularity, 26/05/2022, First UMI meeting of PhD students. Padova, in person;
- String bordism invariants in dimension 3 from  $U(1)$ -valued TQFTs, 13/10/2022, Cobordisms, Strings, and Thom Spectra. Oaxaca, online;
- Breve Seminario sugli Spettri (A Short Talk on Spectra), 04/11/2022, Lecture Series on Cyclic Homology. Rome - Tor Vergata, online;
- The Topological Half of the Grothendieck–Hirzebruch–Riemann–Roch Theorem, 09/11/2022, Cohomology in algebra, geometry, physics and statistics. Prague, online;
- The Topological Half of the Grothendieck–Hirzebruch–Riemann–Roch Theorem, 01/12/2022, Workshop on “Higher Structures” at Penn State. Pennsylvania State University, in person.
- String bordism invariants in dimension 3 from  $U(1)$ -valued TQFTs, 06/12/2022, GAP (Geometry, Algebra, Physics) Seminar. Pennsylvania State University, in person.
- String bordism invariants in dimension 3 from  $U(1)$ -valued TQFTs, 17/08/2023, Higher Structures in Functorial Field Theory. Regensburg, in person.

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## Conferences and summer schools

- Conference “Higher Structures in Holomorphic and Topological Field Theory” at the IHES in Paris in January 2019;
- Summer School “EAST 2019 - European Autumn School in Topology” in Utrecht in September 2019;
- Workshop “Higher Structures and Operadic Calculus” at the CRM in Barcelona in June 2021;
- Masterclass “Topological field theories and factorization homology” in Copenhagen in August 2021;
- Workshop “Homology and homotopy of configuration spaces” in Copenhagen in November 2021;
- Spring School “Spring School on Field Theories and Algebraic Topology” in Utrecht in May 2022;
- “First UMI meeting of PhD students” in Padova in May 2022;
- “Workshop on “Higher Structures” at Penn State” at Pennsylvania State University in State College in December 2022;
- “Higher Structures in Functorial Field Theory” in Regensburg in August 2023;
- “ $(\infty, n)$ -Categories and their applications” in Utrecht in April 2024;