

Emma Lepri

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🌐 emmalepri.github.io/

Personal information

Full name: **Emma Lepri**

Spoken languages: **Italian (native), English (fluent), German (basic)**

Current position

Sep. 2023 – now **Research associate**, University of Glasgow, Glasgow, Mentor: Michael Wemyss.

Education

- Nov. 2019 – May 2023 **Ph.D. in Mathematics**, Università la Sapienza, Rome, cum laude, Tutor: Domenico Fiorenza, Supervisor: Marco Manetti
thesis title: “ L_∞ morphisms and semiregularity”.
- Sep. 2017 – July 2019 **Master Degree in Mathematics**, Università la Sapienza, Rome, 110/110 cum laude
- Sep. 2014 – July 2017 **Bachelor Degree in Mathematics**, Università la Sapienza, Rome, 110/110 cum laude

Papers and preprints

- E. Lepri, M. Manetti, *On deformations of diagrams of commutative algebras*, In: E. Colombo et al. (eds.), Birational Geometry and Moduli Spaces, Springer INdAM Series **39** (2020), 77-107. DOI: 10.1007/978-3-030-37114-2_6 arXiv:1902.10436
- E. Lepri, M. Manetti, *Connections and L_∞ liftings of semiregularity maps*, Journal of Geometry and Physics 168 (2021) 104303, DOI: 10.1016/j.geomphys.2021.104303 arXiv:2102.05016
- E. Lepri, *Cyclic forms on DG-Lie algebroids and semiregularity*, Rend. Sem. Mat. Univ. Padova 151 (2024), pp. 85–121 DOI 10.4171/RSMUP/129 arXiv:2104.12658
- E. Lepri, *An elementary approach to the model structure on DG-Lie algebras*, Rend. Mat. Appl., 44 no. 1-2 (2023), 53-76 journal link arXiv:2211.11669
- R. Bandiera, E. Lepri, M. Manetti, *L_∞ liftings of semiregularity maps via Chern-Simons classes*, Advances in Mathematics, Volume 435, Part A, 2023, 109358. DOI: 10.1016/j.aim.2023.109358 arXiv:2111.12985
- R. Bandiera, E. Lepri, M. Manetti, *Semiregularity maps and deformations of modules over Lie algebroids*, Pure Appl. Math. Q, Volume 20 (2024) Number 5, DOI 10.4310/PAMQ.241105042944 arXiv:2208.00694
- J. Karmazyn, E. Lepri, M. Wemyss, *Trivial extension DG-algebras, unitally positive A_∞ -algebras, and applications* arXiv:2411.17359

Invited Talks

- KCL/UCL Junior Geometry Seminar, 24/06/2021.
- Seminario di Natale 2021, Università degli Studi di Milano, 21/12/2021.
- GAP (Geometry, Algebra, Physics) Seminar, Penn State, 6/09/2022.
- Algebraic Geometry seminar, University of Glasgow, 28/03/2023.
- Seminario di Algebra e Geometria Algebrica, Dipartimento di Matematica dell’Università di Torino, 06/06/2023.
- Talk in the conference “Giornate di Geometria Algebrica e Argomenti Correlati XVI”, Hotel San Michele, Cetraro (Università della Calabria), September 2023.

- Geometry and Analysis Seminar, University of Oxford, 27/11/2023.
- Algebra seminar, University of Edinburgh, 20/03/2024.
- Talk in Séminaire ALPE, University of Toulouse, 11/06/2024.
- Talk in GAP (Séminaire Itinérant de Géométrie et Physique) Edition XIX: Moduli spaces and higher structures, La Sapienza, 12/09/2024.
- GAP (Geometry, Algebra, Physics) Seminar, Penn State, 3/12/2024.
- Uppsala Algebra Seminar, 25/03/2025.
- Talk in workshop “Some like it hot, Geometry & Topology in Rome”, INdAM, July 2025.
- Talk in “Workshop on Derived Categories, Noncommutative Geometry and Deformation Theory”, Hotel San Michele, Cetraro, July 2025.
- Seminario di Algebra e Geometria Algebrica, Dipartimento di Matematica dell’Università di Torino, 23/09/25.

Organisation of conferences and seminars

- May 2024 **Co-organiser (with T. De Deyn, I. Kaur, M. Pressland, F. Rota) of the workshop Algebraic Geometry Days in Glasgow, 8-9 May 2024, University of Glasgow**
- Sep. 2024 – **Organiser of the Algebraic Geometry Seminar, University of Glasgow**
- June 2025

Teaching

- 2024 **Lecturer, Homological Algebra**, First part, Ph.D. course, SMSTC: Scottish Mathematical Sciences Training Centre
- 2021 – 2022 **Tutor, Istituzioni di Matematica Modulo I**, Scienze Naturali, Università La Sapienza, Rome

Supervision

- Summer 2025 **Supervision of a MSc project, University of Glasgow**

Scientific visits

- 15/08/22 – **Visit to Ping Xu, Pennsylvania State University**
10/09/22
- 2/12/24 – **Visit to Ping Xu, Pennsylvania State University**
13/12/24
- 22/09/25 – **Visit to Elena Martinengo, Università di Torino**
26/09/25

Refereeing and reviews

- Referee for Communications in Algebra
- Reviewer for Mathematical Reviews and ZBMath