

# Emma Lepri

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## Personal information

Email: [emma.lepri@glasgow.ac.uk](mailto:emma.lepri@glasgow.ac.uk)  
Nationality: **Italian**  
Personal website: [emmalepri.github.io](https://emmalepri.github.io)

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## Current position

September 2023-now **Research associate**, *University of Glasgow*, Glasgow, Mentor: Michael Wemyss.

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## Education

November 2019-May 2023 **Ph.D. in Mathematics**, *Università la Sapienza, Rome*, Tutor: Domenico Fiorenza, Supervisor: Marco Manetti, thesis title: “ $L_\infty$  morphisms and semiregularity”.

September 2017 - July 2019 **Master Degree in Mathematics**, *Università la Sapienza, Rome*, 110/110 cum laude, thesis title: “Model categories and deformations of diagrams of commutative algebras”, under the supervision of Marco Manetti.

September 2014 - July 2017 **Bachelor Degree in Mathematics**, *Università la Sapienza, Rome*, 110/110 cum laude, thesis title: “Categorie modello e struttura modello di Quillen sulla categoria degli spazi topologici”, (“Model categories and Quillen model structure on the category of topological spaces”), under the supervision of Marco Manetti.

under the supervision of Ping Xu.

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## 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  $L_\infty$  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*, accepted for publication in *Rend. Sem. Mat. Univ. Padova*, March 2022 journal link 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,  *$L_\infty$  liftings of semiregularity maps via Chern-Simons classes*, preprint, arXiv:2111.12985
- R. Bandiera, E. Lepri, M. Manetti, *Semiregularity maps and deformations of modules over Lie algebroids*, accepted for publication in *Pure Appl. Math. Q*, January 2023, arXiv:2208.00694

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## Teaching Experiences

2021-2022 **Tutor**, Istituzioni di Matematica Modulo I, Scienze Naturali, Università La Sapienza, Rome

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## Invited Talks

- KCL/UCL Junior Geometry Seminar, “An L-infinity lifting of the first component of the semiregularity map”, 24/06/2021.
- Seminario di Natale 2021, Università degli Studi di Milano, “L-infinity liftings of semiregularity maps”, 21/12/2021.
- GAP (Geometry, Algebra, Physics) Seminar, Penn State, “L-infinity liftings of semiregularity maps and deformations”, 6/09/2022.
- Algebraic Geometry seminar, University of Glasgow, “L-infinity liftings of semiregularity maps and deformations”, 28/03/2023.

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## Grants

- Winner of a grant “Progetti di Avvio alla Ricerca - tipo 1”, 2020, Università di Roma La Sapienza, for the project “Mappa di semiregolarità e morfismi L-infinito”.
- Winner of a grant “Progetti di Avvio alla Ricerca - tipo 1”, 2021, Università di Roma La Sapienza, for the project “Sollevamenti L-infinito delle componenti superiori della mappa di semiregolarità”.

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## Conferences and summer schools

- Workshop “Young Perspectives in Deformation Theory”, Politecnico di Torino, November 2018.
- “Aeneas Conference: Migrating Algebraic Geometry”, Roma Tre, December 2018.
- “Geometry in Pairs”, Roma Tre, December 2019.
- Workshop “Higher Structures and Operadic Calculus”, CRM Barcelona, June 2021.
- Hausdorff School: “Hyperkähler Geometry”, Hausdorff Institut Bonn, September 2021.
- Workshop “Moduli spaces and hyper-Kähler varieties”, La Sapienza, September 2021.
- Seminario di Natale 2021, Università degli Studi di Milano, December 2021.
- GAeL XXIX, Laboratoire de Mathématiques d’Orsay, May 2022.
- CIRM school “Moduli Spaces and Stability Conditions”, Levico Terme, June 2022.
- “Hyperkähler varieties and related topics”, La Sapienza, September 2022.

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## Languages

- **Italian:** native
- **English:** advanced
- **German:** basic