
Personal information

Date of birth: **15 May 1995**

Nationality: **Italian**

Current position

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

Education

November 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”.

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.

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, unitaly positive A_∞ -algebras, and applications* arXiv:2411.17359

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

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.
- Seminari di Algebra e Geometria Algebrica, 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), 12/09/2023.
- 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.

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.
- “Giornate di Geometria Algebrica e Argomenti Correlati XVI”, Hotel San Michele, Cetraro (Università della Calabria), September 2023.
- Winter meeting in Algebra and Geometry, Roma Tre, December 2023.
- Séminaire ALPE, University of Toulouse, June 2024.
- European Talbot “Operads in deformation theory and homotopical algebra” with Geoffroy Horel and Bruno Vallette, Germany, July–August 2024.
- GAP (Séminaire Itinérant de Géométrie et Physique) Edition XIX: Moduli spaces and higher structures, La Sapienza, September 2024.
- School on Deformation Theory IV, La Sapienza, September 2024.

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”.

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**
- September 2024-now **Organiser of the Algebraic Geometry Seminar, University of Glasgow**

Scientific visits

- 15/08/2022-10/09/2022 **Pennsylvania State University, short visit to Ping Xu.**
- 2/12/2024-13/12/2024 **Pennsylvania State University, short visit to Ping Xu and Mathieu Stiénon.**

Reviews

- October 2022-now **Reviewer for Mathematical Reviews**
- October 2023-now **Reviewer for ZBMath**

Languages

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