

Lennart Obster  
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Born 17–04–97 in Venlo, Netherlands · Dutch & German nationality

## REFERENCES

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The following contacts are available to provide references for me: Ioan Mărcuț ([imarcut at uni-koeln.de](mailto:imarcut@uni-koeln.de)), João Nuno Mestre ([jnmestre at mat.uc.pt](mailto:jnmestre@mat.uc.pt)), Luca Vitagliano ([lvitagliano at unisa.it](mailto:lvitagliano@unisa.it)).

## EDUCATION

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PhD at University of Coimbra (joint program with University of Porto). 2021–April 2026 (provisional)

Master's in Mathematics at Radboud University (cum laude; English). 2019–2021

Bachelor's in Mathematics at Radboud University with minor in Physics & Astronomy (Dutch). 2015–2019

## ORAL PRESENTATIONS (2023 – PRESENT)

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Invited speaker at [GEMS](#) at the University of Coimbra (title: *Representation theory for Lie groupoids revisited: VB-groupoids, representations up to homotopy, and fat extensions*). Fall 2025

Poster at [Around Singularities in Poisson Geometry](#) at the Institute for Advanced Study in Mathematics (title: *A cohomology theory for (infinitesimally) multiplicative tensors*). Summer 2025

Invited speaker (for a ten-minute talk) at [Around Singularities in Poisson Geometry](#) at the Institute for Advanced Study in Mathematics in Hangzhou (title: *Linearising Lie algebroids*). Summer 2025

Poster at the [Interactions of Poisson Geometry, Lie Theory and Symmetry](#) at the University of Lisbon (title: *A cohomology theory for (infinitesimally) multiplicative tensors*). Summer 2025

Invited speaker at the [Higher Geometric Structures along the Lower Rhine XVIII](#) at Radboud University (title: *A cohomology theory for multiplicative tensors*). Spring 2025

Poster at the [XXXII International fall workshop on geometry and physics](#) at the University of Coimbra (title: *Representations up to homotopy of Lie groupoids and Morita invariance*). Fall 2024

Speaker at the [Seminar Sophus Lie](#) at the University of Würzburg (title: *On the rigidity (conjecture) of a class of Lie algebroids*). Spring 2024

Poster at the [Summer School](#) of the UC | UP joint PhD program at the University of Coimbra (title: *Explicit homotopy operators for the Van Est map for representations up to homotopy*). Fall 2023

Poster at the [Dias de Geometria, Topologia e Aplicações](#) at the University of Minho (title: *Explicit homotopy operators for the Van Est map for representations up to homotopy*). Fall 2023

Invited speaker at the [Poisson aan de Waal 3 meeting](#) at Radboud University Nijmegen (title: *Deformation cohomology and the rigidity/linearization problem for Lie groupoids and Lie algebroids*). Spring 2023

Invited speaker at the [PhD colloquium](#) at Radboud University Nijmegen (title: *Proving normal form results using Euler-like vector fields*). Spring 2023

Invited speaker at [Thursday Tuna](#) (before and after known as [Friday Fish](#)) at Utrecht University (title: *Van Est maps for Lie groupoids*). Spring 2023

Invited Speaker at the [Informal Geometry seminar](#) at the University of Coimbra (title: *Van Est theorems for Lie groupoids*). Spring 2023

## PREPRINTS

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My [Master's thesis](#) entitled *Blow-ups of Lie groupoids and Lie algebroids* is on the arxiv (2110.12247). Moreover, a preprint entitled *Fat Lie theory* will appear soon on the arxiv as well. Other works out of my PhD thesis that will appear as preprints in the near future have the following provisional titles: *Explicit homotopy operators for representations up to homotopy* and *A cohomology theory for multiplicative tensors*. My PhD thesis has the provisional title: *Revisiting representation theory of Lie algebroids and Lie groupoids*.

## GRANTS

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[COST grant](#) to visit University of Salerno (title: *A Van Est map for multiplicative tensors*). Fall 2024

[COST grant](#) (ITC conference grant) to attend and orally present at the Seminar Sophus Lie. Spring 2024

[COST grant](#) to visit Radboud University Nijmegen (title: *Homotopy inverse of the Van Est map for representations up to homotopy*). Fall 2023

[Doctoral research grant](#) of the foundation for science and technology (FCT). 2021–2025

## ORGANISATION

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Co-organizer of a learning seminar on the [Nash-Moser inverse function theorem](#) at the University of Coimbra. 2024–2025

Co-organizer of the Spring and Fall editions of the [Research Seminar Program](#) (RSP) of the UC | UP joint PhD program at the University of Coimbra and the University of Porto. 2022–2023 and 2023–2024

Co-organizer (and regular speaker) of a remote weekly learning seminar on integrability of Lie algebroids. Spring 2024

Organizer of problem sessions (and regular speaker) for [Symplectic Geometry](#) at the University of Coimbra. Spring 2023

Co-organizer (and regular speaker) of a weekly learning seminar on deformation theory of Lie groupoids and Lie algebroids at the University of Porto and the University of Coimbra. 2022–2023

## OTHER

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Student representative of the PhD students at the University of Coimbra. 2022–2023 and 2023–2024

Teaching assistant (TA) at Radboud University Nijmegen. 2019–2021