

JOÃO LOBO FERNANDES

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EDUCATION

Karlsruhe Institute of Technology, Germany	<i>Since April 2023</i>
Ph.D. in Mathematics	
Part of the Research Training Group 2229 "Asymptotic Invariants and Limits of Groups and Spaces" funded by the DFG	
Supervised by JProf. Dr. Manuel Krannich (manuel.krannich@kit.edu)	
University of Copenhagen, Denmark	<i>September 2020- July 2022</i>
Master of Science (M.Sc.) in Mathematics	
Thesis: <i>Embedding calculus: a study of convergence and finiteness properties of the Goodwillie tower.</i>	
Supervised by Prof. Dr. Soren Galatius (galatius@math.ku.dk)	
University of Coimbra, Portugal	<i>September 2017-July 2020</i>
Bachelor of Science (B.Sc.) in Mathematics	
Roskilde University, Denmark	<i>September 2018-January 2019</i>
Guest student at Mathematics Department	

PREPRINTS

Stable moduli spaces of odd-dimensional manifold triads	Preprint (2025) arXiv: 2510.17986
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TEACHING EXPERIENCE

Lecture: Topics in Algebraic Topology	Teaching Assistant - Karlsruhe Institute of Technology - <i>Summer 2025</i>
Lecture: Study Lab in Data Science	Teaching Assistant - IT-University of Copenhagen - <i>Winter 2021</i>

TALKS

Stable moduli spaces of odd-dimensional triads	Contributed talk - Copenhagen - <i>August 2025</i>
Stable moduli spaces of odd-dimensional triads	Contributed talk at YTM 2025 - Stockholm - <i>June 2025</i>
Stable moduli spaces of manifolds	AG Seminar - Karlsruhe - <i>May 2025</i>
Introduction to surgery theory	Junior Geometry Seminar - Cambridge - <i>November 2024</i>

CONFERENCES ATTENDED

Masterclass: Infinity operads and applications to geometry	Copenhagen - <i>August 2025</i>
Finite-Dimensional Algebras: Representations, (Co-)Homology and Stability	Karlsruhe - <i>August 2025</i>
European Talbot Workshop 2025: Chromatic homotopy theory and higher algebra	Kolding - <i>July 2025</i>
Young Topologists Meeting 2025	Stockholm - <i>June 2025</i>
European Talbot Workshop 2024: Algebraic operads and deformation theory	Schleiden - <i>July 2024</i>
Masterclass: Homotopical methods in manifold theory	Copenhagen - <i>April 2024</i>
Spaces of Manifolds: Algebraic and Geometric Approaches	Banff - <i>November 2023</i>
European Autumn School in Topology 2023	Utrecht - <i>September 2023</i>
Workshop on Algebraic K-theory of Spaces	Regensburg - <i>July 2023</i>
Workshop on Homology of Configuration Spaces and related topics	Paris - <i>May 2023</i>
Twinned Conference on Homotopy Theory with Applications to Arithmetic and Geometry	Bonn - <i>June 2022</i>
Masterclass: Homology and Homotopy of Configuration Spaces	Copenhagen - <i>November 2021</i>
Masterclass: High dimensional cohomology of moduli spaces	Copenhagen - <i>July 2021</i>

EXTENDED VISITS

University of Cambridge	Visiting Oscar Randal-Williams - <i>October 2024 - November 2024</i>
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SERVICE

Organiser: European Talbot Workshop	<i>Since October 2024</i>
Organiser: Junior Geometry Colloquium	Karlsruhe Institute of Technology - <i>Since September 2024</i>
Organiser: Ph.D. seminar in Morse Theory	Karlsruhe Institute of Technology - <i>March 2024</i>

AWARDS

Research Scholarship "Novos Talentos em Matemática" - Calouste Gulbenkian Foundation	<i>- October 2019 - July 2020</i>
Top 3 Percent Student Award	University of Coimbra - <i>Year 2020</i>

LANGUAGE SKILLS

- Portuguese (mother tongue)
- English - Level C2
- German - Level B2
- Danish - Level A2 (in 2021)