Fosco Loregian Category theory, and everything about it. **Current Position Researcher in Category Theory** 1-14 Tallinna Tehnikaülikooli Küberneetika Instituut **Aug** 2023 | now • Castrum Danorum, EE **Past Positions** Postdoctoral fellow Optics, (2021) Tallinna Tehnikaülikooli Küberneetika Instituut **Tan 2020 | Aug 2023** Castrum Danorum, EE Postdoctoral fellow Centro de Matemática da Universidade de Coimbra **Jul 2019 | Dec 2019** Coimbra, PT Postdoctoral fellow (2023)Max-Planck-Institut für Mathematik Bonn, D Sep 2018 | Feb 2019 Postdoctoral fellow Masarykova univerzita Mar 2017 | Apr 2018 P Brno, CZ Postdoctoral fellow University of Western Ontario Sep 2016 | Nov 2016 London, CA Education Ph.D. in Mathematics Scuola Internazionale Superiore di Studi Avanzati Ct 2012 | Jun 2016 Trieste, IT M.Sc. in Mathematics Università degli studi di Padova (2022)Oct 2010 | Jul 2012 Padova, IT **B.Sc. in Mathematics** Università degli studi di Padova 📋 Jan 2008 | Jun 2010 Padova, IT

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Publications

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- in 10th Conference on Algebra and Coalgebra in Computer Science (CALCO 2023), Vol. 270 (2023), pp.
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- [11] F. Loregian and E. de Oliveira Santos, Coends of Higher Arity, Applied Categorical Structures 30, 173
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- [13] F. Loregian and S. Virili, *Triangulated Factorization* Systems and t-Structures, Journal of Algebra **550**, 219 (2020)
- [14] F. Loregian and E. Riehl, Categorical Notions of Fibration, Expositiones Mathematicae 38, 496 (2020)
- [15] D. Fiorenza, F. Loregian, and G. Marchetti, *Hearts and* Towers in Stable \infty-Categories, Journal of Homotopy and Related Structures 14, 993 (2019)
- [16] F. Loregian, A Standard Theorem on Adjunctions in Two Variables, Preprints of the MPIM (2018)

- [17] F. Loregian, *A Fubini Rule for Infinity-Coends*, Preprints of the MPIM (2018)
- [18] I. Di Liberti and F. Loregian, *Homotopical Algebra Is Not Concrete*, Journal of Homotopy and Related
 Structures **13**, 673 (2018)
- [19] F. Loregian, *(Co)end Calculus* (Cambridge University Press, 2021)
- [20] D. Fiorenza and F. Loregian, *T-Structures Are Normal Torsion Theories*, Applied Categorical Structures 24, 181 (2016)

Preprints

- F. Loregian, Rosen's No-Go Theorem for Regular Categories, arXiv:2012.11648 (2021)
- D. Dentamaro and F. Loregian, Categorical Ontology I -Existence, (2020)
- D. Dentamaro and F. Loregian, Functorial *Erkennen*, (2020)
- I. D. Liberti and F. Loregian, *On the Unicity of Formal Category Theories*, arXiv:1901.01594 (2019)
- F. Loregian, *Localization Theory for Derivators*, arXiv: 1802.08193 (2018)
- D. Fiorenza and F. Loregian, *Recollements in Stable* ∞ -categories, arXiv:1507.03913 (2016)

Teaching and stuff

Courses

ITI9200 - Introduction to Category Theory

A course on basic category theory; at the *course webpage* you find a diary of the lectures and study material.

□ 2020—now • Castrum Danorum, EE

Elements of Finite Mathematics

Techniques of counting, probability, discrete and continuous random variables.

🗂 1st term 2016 🗣 London, CA

Organization of Events

Organiser of ItaCa 2023

The annual meeting of the community of *ItaCa*.

Organiser of ItaCa Fest

An online webinar aimed to gather the community of ItaCa.

 □ 2020—now
 • online

PSSL 103 - Brno

I have been one of the organizers of 103rd Peripathetic Seminar on Sheaves and Logic.

Supervision of students

Ph.D. students

I cosupervise **A. Laretto** (former SIGPLAN LT mentee) together with *N. Veltri*.

mentor for the SIGPLAN-M

Mentee: **A. Laretto**. We worked in formalization in Agda of various results in category theory.

supervisor B.Sc., M.Sc. in Mathematics, internships

- G. Ronchi (Adjoint functors)
- **G. Sorgente** (Formal theory of promonads)
- T. Massacrier (From combinatorial species to general differential 2-rigs)

Other activities

Appointee for the Adjoint school 2019

A webinar and online applied Category Theory reading course. The project was *Traversal optics and profunctors*. Led to the development of *arXiv:2001.07488*.

Appointee for Kan Extension Seminar I

A webinar and online Category Theory reading course. Guided by *E. Riehl*

 □ Jan 2014 | Jul 2014

 ♀ online

Sparse skills

I like the art of crafting books and drawing maps; this is not unrelated to my love for Mathematics.

I am a pretty decent *TeXnic*.

I became a relatively frequent contributor of agdacategories. Agda is... well, pain.

I like languages, natural and artificial (mi ŝatus verki vortaron al matematiko, kun terminoj el teoria kategorioj; mina õpin eesti keelt, aeglaselt; jeg liker Norsk, men jeg liker Maria Franz mer); again, this is not unrelated to my love for Mathematics.

Refereeing, Consulting, and the like

Freelance consultant at PlantingSpace

I conduct research oriented towards categorical probability theory and implementations thereof.

Reviewer and referee

zbMath, AMS Math. Rev., Higher Structures, Axiomathes, RCSM, JPAA