@ fosco.loregian@gmail.com @ tetrapharmakon.github.io @ @te	trapharmakon • Akadeemia tee 21/B
Category theory, and everything about it.	
Current Position	Computer Science (CALCO 2023), Vol. 270 (2023), pp. 1–14
Researcher in Category Theory Tallinna Tehnikaülikooli Küberneetika Instituut ☐ Aug 2023 now	[3] B. Clarke, D. Elkins, J. Gibbons, F. Loregian, B. Milewski, E. Pillmore, and M. Román, <i>Profunctor Optics, A Categorical Update</i> , (2020)
Past Positions	[4] F. Genovese, F. Loregian, and D. Palombi, Escrows Are
Postdoctoral fellow Tallinna Tehnikaülikooli Küberneetika Instituut ☐ Jan 2020 Aug 2023	Optics, (2021) [5] F. Loregian and T. Trimble, Differential 2-Rigs, Electronic Proceedings in Theoretical Computer Science 380 , (2023)
Postdoctoral fellow Centro de Matemática da Universidade de Coimbra ☐ Jul 2019 Dec 2019 Postdoctoral fellow	[6] F. Genovese, F. Loregian, and C. Puca, Fibrational Linguistics (Fiblang): Language Acquisition, Electronic Proceedings in Theoretical Computer Science 380 , (2023)
Max-Planck-Institut für Mathematik ☐ Sep 2018 Feb 2019	[7] I. D. Liberti and F. Loregian, <i>Accessibility and</i> Presentability in 2-Categories, Journal of Pure and Applied Algebra 227 , (2023)
Masarykova univerzita ☐ Mar 2017 Apr 2018 ☐ Brno, CZ Postdoctoral fellow University of Western Ontario	[8] F. Genovese, F. Loregian, and D. Palombi, A Categorical Semantics for Bounded Petri Nets, Electronic Proceedings in Theoretical Computer Science 372, 59 (2022)
Sep 2016 Nov 2016	[9] F. Genovese, F. Loregian, and D. Palombi, <i>A</i> Categorical Semantics for Hierarchical Petri Nets, Electronic Proceedings in Theoretical Computer Science 350 , 51 (2021)
Ph.D. in Mathematics Scuola Internazionale Superiore di Studi Avanzati ☐ Oct 2012 Jun 2016	[10] F. Genovese, F. Loregian, and D. Palombi, <i>Nets with Mana: A Framework for Chemical Reaction Modelling</i> , Graph Transformation 185 (2021)
M.Sc. in Mathematics Università degli studi di Padova ☐ Oct 2010 Jul 2012 Padova, IT	[11] F. Loregian and E. de Oliveira Santos, <i>Coends of Higher Arity</i> , Applied Categorical Structures 30 , 173 (2022)
B.Sc. in Mathematics Università degli studi di Padova ☐ Jan 2008 Jun 2010 Padova, IT	[12] I. Di Liberti, F. Loregian, C. Nester, and P. Sobociński, Functorial Semantics for Partial Theories, Proc. ACM Program. Lang. 5 , (2021)
Publications	[13] F. Loregian and S. Virili, <i>Triangulated Factorization</i> Systems and t-Structures, Journal of Algebra 550 , 219 (2020)
[1] G. Boccali, A. Laretto, F. Loregian, and S. Luneia, Bicategories of Automata, Automata in Bicategories,	[14] F. Loregian and E. Riehl, <i>Categorical Notions of Fibration</i> , Expositiones Mathematicae 38 , 496 (2020)
in Proceedings of the 6th International Conference on Applied Category Theory 2023, Vol. 397 (Open	[15] D. Fiorenza, F. Loregian, and G. Marchetti, <i>Hearts and Towers in Stable</i> \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)

Fosco Loregian

Publishing Association, 2023), pp. 1–19

[2] G. Boccali, A. Laretto, F. Loregian, and S. Luneia,

in 10th Conference on Algebra and Coalgebra in

Completeness for Categories of Generalized Automata,

- [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*.

Dec 2023

Torino, IT

Organiser of ItaCa Fest

An online webinar aimed to gather the community of ItaCa.

1 2020-now

online

PSSL 103 - Brno

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

P Brno, CZ

Supervision of students

Ph.D. students

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

- · mentor for the SIGPLAN-M
- 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*.

🛗 Mar 2019 | Jun 2019

online

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

Languages

ISO 639-3 vec ISO 639-3 ita ISO 639-3 eng ISO 639-3 fra

