Fosco Loregian @ fosco.loregian@gmail.com @ tetrapharmakon.github.io @ @te	tranharn	nakon •• Akadeemia tee 21/B
Category theory and everything about it. (last update: 20/03/		Akadeemia tee 21/B
Current Position	[2]	G. Boccali, A. Laretto, F. Loregian, and S
Researcher in Category Theory Tallinna Tehnikaülikooli Küberneetika Instituut Aug 2023 now Castrum Danorum, EE		Completeness for Categories of Generali in 10th Conference on Algebra and Coal Computer Science (CALCO 2023), Vol. 2' 1–14
Research, teaching, organization of seminars.	[3]	B. Clarke, D. Elkins, J. Gibbons, F. Lore
Freelance consultant at <i>PlantingSpace</i> ☐ Jan 2022 now		Milewski, E. Pillmore, and M. Román, <i>Pro</i> Optics, A Categorical Update, (2020)
 Research oriented towards categorical probability theory and implementations thereof. 	[4]	F. Genovese, F. Loregian, and D. Palomb Optics, (2021)
Past Positions	[5]	F. Loregian and T. Trimble, <i>Differential 2</i> Electronic Proceedings in Theoretical Co
Postdoctoral fellow positions held at		Science 380 , (2023)
Tallinna Tehnikaülikooli Küberneetika Instituut ☐ Jan 2020 Aug 2023	[6]	F. Genovese, F. Loregian, and C. Puca, Fi Linguistics (Fiblang): Language Acquisit Proceedings in Theoretical Computer Sc
Centro de Matemática da Universidade de Coimbra		(2023)
☐ Jul 2019 Dec 2019	[7]	I. Di Liberti and F. Loregian, <i>Accessibility</i> Presentability in 2-Categories, Journal of Applied Algebra 227 (2022)
➡ Sep 2018 Feb 2019 ♠ Bonna, D	[0]	Applied Algebra 227 , (2023)
Masarykova univerzita ☐ Mar 2017 Apr 2018	[8]	F. Genovese, F. Loregian, and D. Palomb Categorical Semantics for Bounded Petr. Electronic Proceedings in Theoretical Co
		Science 372 , 59 (2022)
University of Western Ontario ☐ Sep 2016 Nov 2016 ☐ Lunden, CA	[9]	F. Genovese, F. Loregian, and D. Palomb Categorical Semantics for Hierarchical F Electronic Proceedings in Theoretical Co
Education		Science 350 , 51 (2021)
Ph.D. in Mathematics Scuola Internazionale Superiore di Studi Avanzati	[10]	F. Genovese, F. Loregian, and D. Palomb Mana: A Framework for Chemical Reacti
☐ Oct 2012 Jun 2016	[44]	Graph Transformation 185 (2021)
M.Sc. in Mathematics Università degli studi di Padova	[11]	F. Loregian and E. de Oliveira Santos, <i>Co</i> <i>Higher Arity</i> , Applied Categorical Structu (2022)
Doct 2010 Jul 2012 Pàdoa, IT B.Sc. in Mathematics Università degli studi di Padova	[12]	I. Di Liberti, F. Loregian, C. Nester, and F Functorial Semantics for Partial Theorie Program. Lang. 5 , (2021)

Pàdoa, IT

[1] G. Boccali, A. Laretto, F. Loregian, and S. Luneia, Bicategories of Automata, Automata in Bicategories, in Proceedings of the 6th International Conference on Applied Category Theory 2023, Vol. 397 (Open Publishing Association, 2023), pp. 1-19

苗 Jan 2008 | Jun 2010

Publications

- Luneia, zed Automata, gebra in 70 (2023), pp.
- an, B. ofunctor
- i, Escrows Are
- -Rigs, mputer
- brational ion, Electronic ience **380**,
- and of Pure and
- i, A Nets, mputer
- i, A etri Nets, mputer
- i, Nets with on Modelling,
- ends of ires **30**, 173
- Sobociński, s, Proc. ACM
- [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* ∞ -*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)
- [21] F. Loregian, Automata and Coalgebras in Categories of Species, To Appear in Proceedings of CMCS2024. (2024)

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.

Elements of Finite Mathematics

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

🗂 1st term 2016 🗣 Lunden, 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*.



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*

苗 Jan 2014 Jul 2014	•	online
☐ 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 and reviewing activity

Reviewer and referee

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

Languages

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

