Fosco Loregian		
♠ fosco.loregian@gmail.com ♠ tetrapharmakon.github.io ♠ @tetrapharmakon.github.io	trapharn	nakon 🍳 Akadeemia tee 21/B
Category theory, and everything about it.		
Current Position	[2]	G. Boccali, A. Laretto, F. Loregian, and Completeness for Categories of General in 10th Conference on Algebra and Concomputer Science (CALCO 2023), Vol. 1–14
Researcher in Category Theory Tallinna Tehnikaülikooli Küberneetika Instituut Aug 2023 now Castrum Danorum, EE		
Research, teaching, organization of seminars.	[3]	B. Clarke, D. Elkins, J. Gibbons, F. Lore Milewski, E. Pillmore, and M. Román, Optics, A Categorical Update, (2020)
Freelance consultant at <i>PlantingSpace</i> ☐ Jan 2022 now		
• Research oriented towards categorical probability theory and implementations thereof.	[4]	F. Genovese, F. Loregian, and D. Palom Optics, (2021)
Past Positions	[5]	F. Loregian and T. Trimble, <i>Differential</i> Electronic Proceedings in Theoretical Science 380 , 159 (2023)
Postdoctoral fellow positions held at	[6]	F. Genovese, F. Loregian, and C. Puca, Linguistics (Fiblang): Language Acquist Proceedings in Theoretical Computer 224 (2023)
Tallinna Tehnikaülikooli Küberneetika Instituut ☐ Jan 2020 Aug 2023 • Castrum Danorum, EE		
Centro de Matemática da Universidade de Coimbra		
☐ Jul 2019 Dec 2019	[7]	I. Di Liberti and F. Loregian, <i>Accessibil Presentability in 2-Categories</i> , Journa Applied Algebra 227 , 107155 (2023)
Max-Planck-Institut für Mathematik		
☐ Sep 2018 Feb 2019	[8]	F. Genovese, F. Loregian, and D. Palom Categorical Semantics for Bounded Pe Electronic Proceedings in Theoretical
Masarykova univerzita ☐ Mar 2017 Apr 2018		
University of Western Ontario	[0]	Science 372 , 59 (2022)
☐ Sep 2016 Nov 2016	[9]	F. Genovese, F. Loregian, and D. Palom Categorical Semantics for Hierarchica Electronic Proceedings in Theoretical Science 350 , 51 (2021)
Education		
Ph.D. in Mathematics Scuola Internazionale Superiore di Studi Avanzati	[10]	F. Genovese, F. Loregian, and D. Palon Mana: A Framework for Chemical Read Graph Transformation 185 (2021)
☐ Oct 2012 Jun 2016		
M.Sc. in Mathematics Università degli studi di Padova	[11]	F. Loregian and E. de Oliveira Santos, <i>Higher Arity</i> , Applied Categorical Structure (2022)
☐ Oct 2010 Jul 2012	[12]	I. Di Liberti, F. Loregian, C. Nester, and Functorial Semantics for Partial Theor Program. Lang. 5 , (2021)
B.Sc. in Mathematics Università degli studi di Padova		
☐ Jan 2008 Jun 2010	[13]	F Loregian and S Virili Triangulated F

[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

Publications

- S. Luneia, alized Automata, algebra in 270 (2023), pp.
- egian, B. Profunctor
- nbi, Escrows Are
- 2-Rigs, Computer
- Fibrational sition, Electronic Science 380,
- lity and l of Pure and
- nbi, A etri Nets, Computer
- nbi, A ıl Petri Nets, Computer
- nbi, *Nets with* ction Modelling,
- Coends of ctures **30**, 173
- d P. Sobociński, ries, 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)

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 🗣 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*.

PSSL 103 - Brno

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

 ☐ Apr 2018
 Prno, CZ

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 and reviewing activity

Reviewer and referee

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

Language skills

ISO 639-3 vec ISO 639-3 ita



ISO 639-3 eng ISO 639-3 fra

