Curriculum vitæ

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RESEARCH INTERESTS

Category theory and everything about it.

CURRENT POSITION

1 | Postdoctoral fellow Tallinna Tehnikaülikooli Küberneetika Instituut | Tallinn Jan 2020 | now =

PAST POSITIONS

1 | Postdoctoral fellow Centro de Matemática da Universidade de Coimbra | Coimbra

2 | Postdoctoral fellow

Max-Planck-Institut für Mathematik | Bonn

3 | Postdoctoral fellow Masarykova univerzita | Brno

4 | Postdoctoral fellow and Assistant Professor University of Western Ontario | London

Jul 2019 | Dec 2019 🔼

Sep 2018 | Feb 2019

Mar 2017 | Apr 2018 -

Sep 2016 | Nov 2016 **■ ● ■**

2008 | 2012 EDUCATION

1 | Ph.D. in Mathematics SISSA | Trieste

thesis: t-structures on stable ∞-categories : 2005.14295

2 | M.Sc. in Mathematics

Università degli studi di Padova thesis: Orlov reconstruction theorem

3 | B.Sc. in Mathematics Università degli studi di Padova thesis: Monads and Beck's theorem Oct 2010 | Jul 2012 ...

Oct 2012 | Jun 2016

Jan 2008 | Jun 2010 💶

PUBLICATIONS

1 | Escrows are optics 2105.10028 | to appear on JFT w/F. Genovese, D. Palombi I

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2 | Differential 2-rigs w/T. Trimble | 2103.00938 | Accepted for ACT2022 3 | Fibrational Inquistics II: language acquisition w/F. Genovese, C. Puca I 2201.01136 | Accepted for ACT2022 4 | Fibrational Inquistics I: first concepts w/F. Genovese, C. Puca I 2201.01136 | Accepted for ACT2022 5 | Accessibility and presentability in 2-categories w/I. Di Liberti | 1804.08710v4 | Journal of Pure and Applied Algebra | doi:10.1016/j.jpaa.2022.107155 6 | A Categorical Semantics for Bounded Petri Nets w/F. Genovese, D. Palombi | 2101.09100 | Applied Category Theory 2021 7 | Coends of higher arity w/T. de Oliveira Santos I 2011.13881 | Applied Categorical Structures | doi:10.1007/s10485-021-09653-x 8 | A Categorical Semantics for Hierarchical Petri Nets w/F. Genovese, J. Herold, D. Palombi | 2102.00096 | Proc. of GCM, 2021 Springer | doi:10.4204/EPTCS.350.4 9 | Nets with Mana: A Framework for Chemical Reaction Modelling w/F. Genovese, D. Palombi I 2101.06234 | Graph Transformation, Proc. of ICGT, 2021 Springer. | doi:10.1007/978-3-030-78946-6_10 10 | Functorial semantics for partial theories w/I. Di Liberti, et al. | 2011.06644 | Proc. ACM Program. Lang. 5, POPL, 2021. | doi:10.1145/3434338 11 | Triangulated factorization systems and *t*-structures w/S. Virili | 1705.08565v3 | *Journal of Algebra* | doi:10.1016/j.jalgebra.2019.12.021 12 | Categorical notions of fibration w/E. Riehl I 1806.06129 | Expos. Math. (2019) | doi:10.1016/j.exmath.2019.02.004 13 | Hearts and towers in stable infinity-categories w/D. Fiorenza, G. Marchetti | 1501.04658 | Journal of Homotopy and Related Structures 2019 | doi:10.1007/s40062-019-00237-0 14 | A standard theorem on adjunctions in two variables 1902.06074 | Preprints of the MPIM, 2018 (67) 15 | A Fubini rule for ∞-coends 1902.06086 | Preprints of the MPIM, 2018 (68) 16 | Homotopical Algebra is not concrete w/I. Di Liberti I 1704.00303 | Journal of Homotopy and Related Structures (2017): 1-15 | doi:10.1007/s40062-018-0197-3 17 | Sober Ontic Structural Realism and Yoneda lemma abstract at the Triennial conference of the SILFS, Bologna 18 | Coend calculus 1501.02503 | LMS Lecture Note Series 468. Cambridge University Press. 2021. ISBN 9781108778657. 19 | t-structures are normal torsion theories w/D. Fiorenza | 1408.7003 | Applied Categorical Structures 24.2 (2016): 181-208 | doi:10.1007/s10485-015-9393-z PREPRINTS 1 | Rosen's no-go theorem for regular categories 2012.11648 2 | Functorial Erkennen w/D. Dentamaro |

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http://philsci-archive.pitt.edu/18519/

3	Categorical Ontology I http://philsci-archive.pitt.edu/17136/	w/D. Dentamaro
4	Profunctor optics, a categorical update 2001.07488	w/B. Clarke, et al.
5	On the unicity of formal category theories 1901.01594v1	w/l. Di Liberti
6	Localization theory for derivators 1802.08193v1	
7	Recollements in stable ∞ -categories 1507.03913v2	w/D. Fiorenza
TAL	_KS	
1	A few remarks on the fibration of algebras video ItaCa 2022, Pisa	Dec 2022
2	Differential 2-rigs video Applied Category Theory 2022, Glasgow	Jul 2022
3	Fibrational linguistics video Applied Category Theory 2022, Glasgow	Jul 2022
4	Towards a formal category theory of derivators video Invited speaker New Directions in Group Theory & Triangulated Categories	Nov 2021
5	Differential 2-rigs Invited speaker CT20→21 - Genova	Sep 2021
6	Functorial semantics of partial theories Invited Speaker Seminari di logica Torino-Udine	Apr 2021
7	On the unicity of the formal theory of categories Lectures on 1901.01594 ULB - Bruxelles	Dec 2018
8	Accessibility and Presentability in 2-categories Two-lecture series on 1804.08710 Università degli studi di Torino	Nov 2018
9	Homotopical algebra is not concrete Contributed talk British Topology Meeting Leicester	Sep 2017
10	The formal category theory of derivators Invited speaker Some trends in Algebra Prague	Sep 2017
Teaching & Organizational activities, Awards		
1	I Award for <i>Researcher of the Year</i> 2021	2021
2	ITI9200 - Introduction to Category Theory A course on basic category theory; at the course webpage you find a diary of t	Jan 2022 May 2022 he lectures and study
	material.	
3	TII9200 - Introduction to Category Theory	Jan 2021 May 2021

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4 | TI19200 - Introduction to Category Theory

Jan 2020 | May 2020

5 | Good Organiser of ItaCa Fest

2020|2021|2022

An online webinar aimed to gather the community of ItaCa.

6 | Dappointee for Adjoint school 2019

Mar 2019 | Jun 2019

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

7 | D PSSL 103 - Brno

MU Brno - CZ

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

8 | Elements of Finite Mathematics

UWO London - CA

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

9 | 🖨 appointee for Kan Extension Seminar I

Jan 2014 | Jul 2014

A webinar and online Category Theory reading course.

Supervision of students

1 | remember for the SIGPLAN-M

mentee: A. Laretto

The SIGPLAN Long-Term Mentoring Committee (SIGPLAN-M) organizes an international long-term mentoring program for programming languages researchers.

2 | supervisor and coadvisor M.Sc. in Mathematics Categorical linguistics | (tentative)

student: M. Roselli

3 | supervisor for M.Sc. internship at TalTech

student: T. Massacrier

From combinatorial species to general differential 2-rigs

4 | supervisor and coadvisor M.Sc. in Mathematics Formal theory of promonads | (tentative)

student: G. Sorgente

5 | supervisor and coadvisor B.Sc. in Mathematics

student: G. Ronchi

Adjoint Functors | amslaurea.unibo.it

OTHER ACTIVITIES

1 | 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 maintain this CV through a github repo whence you can steal the code, if you ask politely). I know bits of Haskell, Python, and Wolfram, but in the end I don't care *that* much about programming if I can't do category theory in it. I became a relatively frequent contributor of agda-categories. 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.

2 | Directeur des systèmes d'information @ 'Les Presses Insoumises'.

I have participated to the craft of the cover of the first edition of the Grimoire of Commutative Algebra by Lorenzo Ramero.

3 | Freelance consultant @ PlantingSpace

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

4 | Reviewer for

zbMath. AMS Math. Rev.

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