Curriculum Vitæ

last updated October 9, 2017

PERSONAL DETAILS

Fosco Loregian
May 23, 1987
Kotlářská 2 | 61137 Brno | Czech Republic
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`fouche.fouche`

CURRENT POSITION

Post-doc — Mar 2017 | now
Masaryk University, Brno

EDUCATION

Postdoctoral fellow and assistant professor — Aug 2016 | Nov 2016
University of Western Ontario

Ph.D. in Mathematics — Oct 2012 | Jun 2016
sissa – Trieste, Italy

M.Sc. in Mathematics — Oct 2010 | Jul 2012
Università degli studi di Padova | Padua, Italy

B.Sc. in Mathematics — Jan 2008 | Oct 2010
Università degli studi di Padova | Padua, Italy

RESEARCH INTERESTS

Category theory applied to algebra, geometry and physics.

THESES

PhD thesis | *t-structures in stable ∞-categories* — Jun 2016
supervisor: *D. Fiorenza, Università degli Studi di Roma "La Sapienza", Italy*

I re-enact the classical theory of *t-structures* reducing the classical definition to a primitive categorical notion: suitable *reflective factorization systems*, called *normal torsion theories*.

Master thesis | *Orlov's reconstruction theorem* — Jul 2012
F. Bottacin, Università degli studi di Padova, Italy

SUPERVISOR ACTIVITY

Giovanni Ronchi SEP 2016
Adjoint Functors | *Università di Bologna*
B.Sc. in Mathematics | coadvisor | *http://amslaurea.unibo.it/id/eprint/*11447

PUBLICATIONS

Homotopical Algebra is not concrete, I APR 2017
with I. DI LIBERTI (MUNI) | *accepted in Journal of Homotopy and related Structures*

t-structures are normal torsion theories AUG 2014
with D. FIORENZA | *Applied Categorical Structures* (2014), *pp.* 1-28.

PREPRINTS

Factorization systems on (stable) derivators MAY 2017
with S. Virili (Murcia) | *https://arxiv.org/abs/*1705.08565

***Recollements* in stable ∞-categories** AUG 2015
with D. FIORENZA | *http://arxiv.org/abs/*1507.03913

Hearts and Postnikov towers in stable ∞-categories JAN 2015
with D. FIORENZA | *http://arxiv.org/abs/*1501.04658

This is the co/end, my only co/friend JAN 2015
*http://arxiv.org/abs/*1501.02503

IN PREPARATION

Localization theory for derivators
j/w. M. Groth and S. Virili

Locally presentable and accessible derivators
j/w. J. Rosický and S. Virili

Coend calculus in ∞-categories
j/w. F. Genovese (Bonn)

Sober Ontic Structural Realism and Yoneda lemma

in preparation for SILFS 2017*, Bologna – Italy*

TALKS AND CONFERENCES

Homotopical algebra is not concrete SEP 2017
Contributed talk | BTM 2017 Leicester (UK)

The formal category theory of derivators SEP 2017
Invited speaker | STA 2017 Prague (CZ)

Sober Ontic Structural Realism JUN 2017
Invited speaker | SILFS 2017 Bologna (Italy)

Model categories MAY 2017
Invited speaker | 'A categorical day in Turin' CdTO, Torino (Italy)

t-derivators FEB 2017
Invited speaker | 'Conference for Young researchers in homotopy theory and categorical structures' CYRhtCS, Bonn (Germay)

Coend calculus MAY 2016
Invited by N. Gambino (Leeds). Series of lectures on `arXiv:1501.02503`

Simplicial Presheaves and Derived Agebraic Geometry OCT 2015
Lectures on DAG *following Töen's book*

Categorical Resolutions of singularities, categorically JAN 2015
Two lectures on Kuznetsov-Lunts' `arXiv:1212.6170`.

For the sake of well-completeness JUN 2014
Opening short-seminars of CT*2014, Cambridge (*UK*)*

How I learned to love the first quadrant MAY 2014
A gentle intro to the Serre spectral sequence, with examples and computations

It's turtles all the way down MAY 2014
A (not so) gentle introduction to higher category theory

Homotopical interpretation of stack theory APR 2013
following Joyal-Tierney

Homotopical algebra for C*-algebras DEC 2012
following O. Uuye's `arXiv:1011.2926` *and A. Østvær*

REVIEWING SERVICES

Reviewer for zbMath

TEACHING & ORGANIZATIONAL ACTIVITIES

Elements of Finite Mathematics
Techniques of counting, probability, discrete and continuous random variables.

Homotopical Algebra
A bottom-up introduction to the language of Homotopical Algebra.

Kan Extension Seminar I
An webinar and online Category Theory reading course. Each of the twelve participants composed a blog post for the n-Category Café https://golem.ph.utexas.edu/category/ over the course of the first six months of 2014*, which has been published every other week. The other participants commented and interacted together, often creating stimulating discussions.*