

# Curriculum Vitæ

last updated May 28, 2017

## PERSONAL DETAILS



FOSCO LOREGIAN



May 23, 1987



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## CURRENT POSITION

**Post-doc**

*Masaryk University, Brno*

Mar 2017 | now

## EDUCATION

**Postdoctoral fellow and assistant professor**

*University of Western Ontario*

AUG 2016 | NOV 2016

**Ph.D. in Mathematics**

*SISSA – Trieste, Italy*

OCT 2012 | JUN 2016

**M.Sc. in Mathematics**

*Università degli studi di Padova | Padua, Italy*

OCT 2010 | JUL 2012

**B.Sc. in Mathematics**

*Università degli studi di Padova | Padua, Italy*

JAN 2008 | OCT 2010

## RESEARCH INTERESTS

Category theory applied to algebra, geometry and physics; formal and higher category theory; enriched homotopy theory; topos theory; homological algebra and algebraic topology; topological and algebraic quantum field theories; homotopical algebra; higher dimensional algebra.

## THESES

**PhD thesis** | *t-structures in stable  $\infty$ -categories*

*supervisor: D. FIORENZA, Università degli Studi di Roma “La Sapienza”, ITALY*

JUN 2016

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*

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## SUPERVISOR ACTIVITY

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

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## PUBLICATIONS

***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>*

**Homotopical Algebra is not concrete, I** APR 2017  
*with I. DI LIBERTI (MUNI) | <https://arxiv.org/abs/1704.00303>*

**Récollements in stable  $\infty$ -categories** AUG 2015  
*with D. FIORENZA | <http://arxiv.org/abs/1507.03913>*

**Hearts and Postnikov towers in stable  $\infty$ -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

**Coend calculus in  $\infty$ -categories** ■  
*j/w. F. Genovese (Bonn)*

**Sober Ontic Structural Realism and Yoneda lemma** ■  
*in preparation for SILFS 2017, Bologna – Italy*

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## TALKS AND CONFERENCES

### Sober Ontic Structural Realism

*Invited speaker* | *SILFS 2017 Bologna (Italy)*

JUN 2017

### Model categories

*Invited speaker* | [CdTO](#), Torino (Italy)

MAY 2017

### $t$ -derivators

*Invited speaker* | [CYRhtCS](#), Bonn (Germany)

FEB 2017

### Coend calculus

*Invited by N. Gambino. Lectures on* [arXiv:1501.02503](#)

MAY 2016

### Simplicial Presheaves and Derived Algebraic Geometry

*Lectures on* *DAG* following Töen's book

OCT 2015

### Categorical Resolutions of singularities, categorically

*Two lectures on Kuznetsov-Lunts'* [arXiv:1212.6170](#)*.*

JAN 2015

### Lurification

*A gentle introduction to stable quascategories, with examples.*

JAN 2015

### For the sake of well-completeness

*Opening short-seminars of* *cr2014*, Cambridge (UK)

JUN 2014

### How I learned to love the first quadrant

*A gentle intro to the Serre spectral sequence, with examples and computations*

MAY 2014

### It's turtles all the way down

*A (not so) gentle introduction to higher category theory*

MAY 2014

### The Algebra and Geometry of categorical groups

*following John Baez*

JUN 2013

### Homotopical interpretation of stack theory

*following Joyal-Tierney*

APR 2013

### Categorification on AQFT

*Following M. Comeau*

MAR 2013

### Homotopical algebra for $C^*$ -algebras

*following O. Uuye's* [arXiv:1011.2926](#) *and A. Østvær*

DEC 2012

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## REVIEWING SERVICES

*Reviewer for*     zbMath

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## TEACHING & ORGANIZATIONAL ACTIVITIES

**Elements of Finite Mathematics** \_\_\_\_\_■

**Homotopical Algebra** \_\_\_\_\_■

**Kan Extension Seminar I** \_\_\_\_\_■

**Categorical Tools** \_\_\_\_\_■