Marco Vergura

Curriculum Vitae

PERSONAL DETAILS

Birth	July 23, 1991
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EDUCATION

Ph.D. Candidate in Mathematics 2015-present

Western University (Canada)

I am currently a Ph.D student in homotopy (type) theory and category theory under the supervision of prof. Dan Christensen. I expect to graduate in Summer 2019, with a thesis on localization theory in an ∞-topos.

MSc. Mathematics 2013-2015

University of Padova (Italy) & University of Leiden (The Netherlands)

I was a student in the ALGANT double-degree master program in mathematics. As a consequence, I received a master degree in mathematics from both the University of Padova and the University of Leiden. I graduated summa cum laude with a thesis called "A Giraud-type Theorem for Model Topoi" under the supervision of dr. Matan Prasma and prof. Bas Edixhoven.

BSc. Mathematics 2010-2013

University of Trento (Italy)

I graduated summa cum laude with a bachelor thesis in sheaf theory, supervised by prof. Stefano Baratella.

TEACHING EXPERIENCE & EDUCATION IN TEACHING

Course Instructor Fall 2018

Calculus 1000

I was selected as one of the two 4th-year Ph.D student chosen every year by the department of mathematics at Western University to teach a first-year undergraduate course. Calculus 1000 is a basic introduction to the calculus of single-variable real functions. My class consisted of about 220 students and I taught four hours per week.

Substitute instructor Winter 2018

Calculus 1225

I was recommended as a substitute instructor for an introductory course in single-variable calculus at Western University for a 3-week period, teaching three hours of classes per week.

Participant to a course in university teaching Fall 2017

SGPS 9500: The Theory and practice of University Teaching

As an extra-curricular activity, I took and passed a graduate-level course in university teaching and learning, based on the book *How Learning Works: Seven Research Based Principles for Smart Teaching* (Ambrose, S. A. et al., 2010). On this occasion, I developed a course-design project as well as a group presentation on multiple choice questions. This course is also a requirement for the Western Certificate in Teaching and Learning, which I am planning to obtain by Summer 2019.

Teaching Assistant Fall 2015-Summer 2018

Linear Algebra 1600

I was repeatedly assigned as a TA to a linear algebra course for students in mathematics and other scientific disciplines at Western University. My duties included running weekly one-hour long tutorials, resulting in a mixture of active teaching duties and question answering.

TALKS

- I am an **invited speaker** at the **AMS Special Session on Structured Homotopy Theory** (Ann-Arbor, MI, 20-21 October 2018). Talk title: *Localization theory in an ∞-topos.*
- I gave a talk on classical localization at a prime p at the **reading seminar on localization in homotopy theory** in Winter 2018 (Western University).
- I gave a talk on the Dold-Kan correspondence for stable ∞-categories at the **reading seminar on stable ∞-categories** in Spring 2017 (Western University).
- I gave a couple of talks on models for $(\infty, 1)$-categories at the **reading seminar on higher category theory in Fall 2016** (Western University).

CONFERENCES

- **Participant** to the **Fall Perspectives on Teaching** conference at Western University. Keynote speaker: dr. Peter Felten (Elon University).
- **Participant** to the **2018 MIT Talbot Workshop** on Model-independent theory of ∞-categories (May 27-June 2, 2018, Government Camp, OR). Mentors for the workshop were Emily Riehl and Dominic Verity.
- **Participant** to the Learning Seminar in **Topological Data Analysis** at Western University (Spring 2018).
- **Participant** to the **2016 International Category Theory Conference**.
- **Participant** to the **2016 AARMS Summer School** (July-August 2016, Halifax, Canada). I attended and passed the classes "Higher Category Theory and Categorical Logic" given by prof. Mike Shulman and prof. Peter LeFanu Lumsdaine and "Categories, Quantum Computation and Topology" taught by prof. Jamie Vicary.
- **Participant** to the **Workshop on Homotopy Type Theory and Univalent Foundations of Mathematics** at the Fields Institute in Toronto (May 16-20, 2016).

SKILLS

Languages	Italian (mother tongue) English (fluent)