



TALKS

- 1 | **The formal category theory of derivators** Apr 2019
Invited speaker | Workshop on Derivators - Regensburg
- 2 | **On the unicity of the formal theory of categories** Dec 2018
Talk on [1901.01594](#) | ULB - Bruxelles
- 3 | **Accessibility and Presentability in 2-categories** Nov 2018
Talk on [1804.08710](#) | Università degli studi di Torino
- 4 | **Homotopical algebra is not concrete** Sep 2017
Contributed talk | *British Topology Meeting* | Leicester
- 5 | **The formal category theory of derivators** Sep 2017
Invited speaker | *Some trends in Algebra* | Prague
- 6 | **Sober Ontic Structural Realism** Jun 2017
Invited speaker | *SILFS* | Bologna
- 7 | **Model categories** May 2017
Invited speaker | *A categorical day in Turin* | Torino
- 8 | **t -derivators** Feb 2017
Invited speaker | *Young researchers in homotopy theory*, Bonn
- 9 | **Coend calculus** May 2016
Lectures on [1501.02503](#) | Leeds

TEACHING & ORGANIZATIONAL ACTIVITIES

- 1 | **appointee for Adjoint school 2019** Mar 2019 |
A webinar and online applied Category Theory reading course. The project name is *Traversal optics and profunctors*. In functional programming, optics are ways to zoom into a specific part of a given data type and mutate it. Optics come in many flavors such as lenses and prisms and there is a well-studied categorical viewpoint, known as profunctor optics. Of all the optic types, only the traversal has resisted a derivation from first principles into a profunctor description. We aim to find such characterization.
- 2 | **2-categories** Padova - IT
A short course on 2-dimensional category theory. Tentative program: monoidal and enriched categories, the calculus of coends and Kan extensions, 2-categories, the bicategory of profunctors, the 2-category of derivators, 2-dimensional limits, the formal theory of monads, formal category theory.
- 3 | **PSSL 103 - Brno** MU Brno - CZ
I have been one of the organizers of 103rd Peripathetic Seminar on Sheaves and Logic.
- 4 | **Formal category theory** MU Brno - CZ
A series of lectures having the scope to breach in Riehl-Verity's theory of ∞ -cosmoi.
- 5 | **Elements of Finite Mathematics** UWO London - CA
Techniques of counting, probability, discrete and continuous random variables.
- 6 | **Homotopical Algebra** MU Brno - CZ
A bottom-up introduction to the language of Homotopical Algebra
- 7 | **appointee for Kan Extension Seminar I** Jan 2014 | Jul 2014
A webinar and online Category Theory reading course.

8 | **supervisor and coadvisor B.Sc. in Mathematics**
Adjoint Functors | amslaurea.unibo.it

student: Giovanni Ronchi

9 | **supervisor and coadvisor B.Sc. in Physics**
Bohr toposes | Università di Milano Bicocca

student: Davide Bosetti

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 as a github repo [here](#)). I know bits of Haskell, Python, and Wolfram. I like artificial languages (mi ŝatus verki vortaron al matematiko, kun terminoj el teoria kategorioj); again, this is not unrelated to my love for Mathematics.

2 | **Reviewer for**

zbMath, AMS Math. Rev.