

Greta Coraglia

PhD student @ University of Genova



ACADEMIC INTERESTS

I am interested in logic, category theory, and theoretical computer science, with a focus on using categorical tools to describe deductive systems.

SUPERVISOR
Prof. Pino Rosolini

CURRENTLY STUDYING

Various flavours of type theory, identity types, how does the cut rule relate to comonads, clans and tribes that model stuff, sheaves for opinion dynamics.

CONTACTS



coraglia@dima.unige.it



<https://etagreta.github.io/>



Via Dodecaneso, 35, Genova (IT)

EDUCATION

PhD in Mathematics, present
University of Genova

MSc in Mathematics, *cum laude*, 2019
University of Milano

"A categorical perspective on Heyting-valued sets", adv. Pino Rosolini and Silvio Ghilardi

BSc in Mathematics, 2017
University of Milano

"Cantor-Bernstein and Hartogs, universes and strongly inaccessible cardinals", resp. Luca Barbieri Viale

AWARDS & TRAVEL GRANTS

ALLA's prize for best master's thesis in logic, 2019

Visit to TalTech, Tallinn, May 2022

Participation in:

- Adjoint School research week at Strathclyde, Glasgow, July 2022
- Logic and higher structures at CIRM, Marseille, March 2022
- SYCO 6, Leicester, December 2019

RESEARCH

Project: *Fuzzy type theory for opinion dynamics*

Adjoint School 2022

under the supervision of Paige Randall North

Context, judgement, deduction (with Ivan Di Liberti)

November 2021

under review, arXiv:2111.09438

A categorical perspective on Heyting-valued sets

July 2019, Master's thesis

* Awarded AILA's annual prize for the best Italian theses in Mathematical Logic

INVITED TALKS

Comonads for dependent types

ItaCa Fest, online, May 2022

Coding deductive systems into a 2-category

TallCat, TalTech (Tallinn), May 2022

Categories as syntax

PhD², Milano, December 2021

CONTRIBUTED TALKS

A 2-categorical representation of deduction

Logic and higher structures, CIRM (Marseille), February 2022

Context, judgement, deduction

ItaCa Workshop, Genova, December 2021

How to catch a non-set

BYMAT, online, December 2020

RANDOM

I like to play 7v7 football, and I am politically active in my community. I have always loved languages and translation, I have done the latter for some time from 2010 to 2012 for the fansubbing website *italiansubs.net*, and I translated two manuscripts from English to Italian for the literary agency Grandi & Associati. I have also been chaperoning authors attending the Women's Fiction Festival in Matera from 2008. I am fluent in English and decent in Spanish. I'm trying to learn Russian. I have taught English to first graders, tutored many high-schoolers in math (if you are reading this: I hope you are well and can remember the trick for trigonometric identities!). At some point I was preparing students for the entry test to Italian Med School. I got a Machine Learning certification once.