Davide Castelnovo
Ph. D.

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Citizenship: Italian

Education

Nov. 2019 - Jun. 2023 (expected)
Ph. D., *University of Udine*, Italy.
- Subjects: Algebraic theories, Categorical models for graph rewriting
- Supervisor: Prof. Marino Miculan

Jan. 22 - May 28, 2022
Visiting student at Tallinn Institute of Technology, *Tallinn*, Estonia, Collaborating with Dr. Fosco Loregian.

Oct. 2016 - Dec. 2018
Master in Mathematics, *University of Milano*, Italy.
- Master thesis *"A conservative embedding of intuitionistic logic in a topos of sheaves"*
  - Supervisors: Prof. S. Mantovani (Univ. of Milano) & Prof. M. E. Maietti (Univ. of Padova).
- GPA: 110/110 summa cum laude.

Oct. 2012 - Jul. 2016
Bachelor in Mathematics, *University of Milano*, Italy.
- Bachelor thesis: *"Gruppi di omotopia Superiore"*. Supervisor: Prof. E. Colombo.
- GPA: 99/110

2007 - 2012
High School, *Liceo Scientifico Tecnologico "Antonio Badoni"*, Lecco (LC), Italy.
- GPA: 97/100

Talks and workshops

2022 **3rd ItaCa Workshop**, *University of Pisa*, Pisa (PI), Italy.

2022 **9th Symposium on Compositional Structures**, *University of Como*, Como (CO), Italy.

2022 **Talk at 25th International Conference on Foundations of Software Science and Computation Structures, "A new criterion for $\mathcal{M}, \mathcal{N}$-adhesivity, with an application to hierarchical graphs"**, *Technische Universität München*, München, Germany.

2022 **Talk at 30th EACSL Annual Conference on Computer Science in Logic 2022, "Fuzzy Algebraic theories"**, *University of Göttingen*, Göttingen (online), Germany.

2021 **Talk at 22nd Graduate Student Conference in Logic "Closure Hyperdoctrines"**, *University of Illinois*, Urbana-Champaign (online), United States of America.

2021 **International Conference on Algebra, Topology and Their Interactions**, *Udine (online)*, Italy.

2021 **Talk at 9th Conference Conference on Algebra and Coalgebra in Computer Science, "Closure Hyperdoctrines"**, *University of Salzburg*, Salzburg, Austria.

2021 **Midlands Graduate School in the Foundations of Computing Science**, *IMPRS*, (online).

2020 **Talk at TallCat - Compositional Systems and Methods group at TalTech, "Equational theories in an enriched context".**, *Tallinn Institute of Technology*, Tallinn (online), Estonia.

2020	**Talk at 25ᵗʰ Estonian Winter School in Computer Science, "Preclosure Hyperdoctrines, Completeness of (Higher Order) Spatial Logic for Closure Spaces"**, *Tallinn Institute of Technology*, Palmse, Estonia.
2019	**1ˢᵗ ItaCa Workshop**, *University of Milano*, Milano (MI), Italy.

Teaching and outreach activities

2020, 2021 (winter term)	**Master students tutoring**, Tutoring the *Algebra 1* course.
2021 (winter term)	**Master students tutoring**, Tutoring the *Linear Algebra* course.

Other Scientific Activity

Sep. 7-8, 2021	**Member of the Organizing Committee of the International Conference on Algebra, Topology and Their Interactions**, *Udine (online)*, Italy.
2020 - 2023 (expected)	**Students' representative at Mathematics, Computer Science and Physics Departmental Council**, *Univ. of Udine*, Italy.
2021 - 2023 (expected)	**Students' representative at Mathematics, Computer Science and Physics PhD School Council**, *University of Udine*, Italy.

Technical Skills

Programming	HASKELL (basic), C++ (basic)
OS	LINUX, WINDOWS
Editing	LATEX, OFFICE PACKAGE

Languages

Italian	Mother tongue
English	Fluent, speaking and writing

List of publications

- Davide Castelnovo, Fabio Gadducci, Marino Miculan, *A simple criterion for $\mathcal{M}, \mathcal{N}$-adhesivity*, 2022, submitted to Theoretical Computer Science;
- Davide Castelnovo, Fabio Gadducci, Marino Miculan, *A new criterion for $\mathcal{M}, \mathcal{N}$-adhesivity, with an application to hierarchical graphs*, 2022, Proceedings of the 25ᵗʰ International Conference on Foundations of Software Science and Computation Structures;
- Davide Castelnovo, Marino Miculan, *Fuzzy Algebraic Theories*, Proceedings of the 30th EACSL Annual Conference on Computer Science Logic, 2022;
- Davide Castelnovo, Marino Miculan, *Closure Hyperdoctrines*, Proceedings of the 9ᵗʰ Conference on Algebra and Coalgebra in Computer Science.