Davide Castelnovo

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Citizenship: Italian

Education

Jun. 2023 - Jun. 2024	**Research Fellow**, *University of Padova*, Italy.
Nov. 2019 - Oct. 2023 (expected)	**Ph. D.**, *University of Udine*, Italy. ● Subjects: Algebraic theories, Categorical models for graph rewriting ● Supervisor: Prof. Marino Miculan
Jan. - May 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. ● GPA: 99/110
2007 - 2012	**High School**, *Liceo Scientifico Tecnologico "Antonio Badoni"*, Lecco (LC), Italy. ● GPA: 97/100

Talks and workshops

2023	**Talk at PRIN 2017 "IT-MATTERS" Final Workshop "$\mathcal{M},\mathcal{N}$-adhesivity: results and examples"**, *Scuola IMT Alti Studi*, Lucca, Italy.
2022	**3$^{\text{rd}}$ ItaCa Workshop**, *University of Pisa*, Pisa (PI), Italy.
2022	**9$^{\text{th}}$ Symposium on Compositional Structures**, *University of Como*, Como (CO), Italy.
2022	**Talk at 25$^{\text{th}}$ 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 30$^{\text{th}}$ EACSL Annual Conference on Computer Science in Logic 2022, "Fuzzy Algebraic theories"**, *University of Göttingen*, Göttingen (online), Germany.
2021	**Talk at 22$^{\text{nd}}$ 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 9$^{\text{th}}$ 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)	**Undergraduate students tutoring**, Tutoring the *Algebra 1* class for the first year of the Math undergraduate program, University of Udine..
2021 (winter term)	**Undergraduate students tutoring**, Tutoring the *Linear Algebra* for the first year of the Mechanical Engineering undergraduate program, University of Udine..

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	**Students' representative at Mathematics, Computer Science and Physics Departmental Council**, *Univ. of Udine*, Italy.
2021 - 2023	**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.