

# Davide Castelnovo

Ph. D.

📞 (+39) 3348908828  
✉ castelnovod@gmail.com  
🌐 <https://davidecaste.github.io>  
Citizenship: Italian

---

## List of Publications

### Journals

- 2025 Davide Castelnovo, Marino Miculan, *On The Axioms Of  $\mathcal{M}, \mathcal{N}$ -Adhesive Categories*, Logical Methods in Computer Science, 21
- 2024 Davide Castelnovo, Fabio Gadducci, Marino Miculan, *A simple criterion for  $\mathcal{M}, \mathcal{N}$ -adhesivity*, Theoretical Computer Science 982:114280

### Proceedings of Conferences

- 2025 Roberto Biondo, Davide Castelnovo, Fabio Gadducci, *EGGs are adhesive!*, Proceedings of the 9<sup>th</sup> International Conference on Algebra and Coalgebra in Computer Science
- 2024 Paolo Baldan, Davide Castelnovo, Andrea Corradini, Fabio Gadducci, *Left-Linear Rewriting in Adhesive Categories*, Proceedings of the 35<sup>th</sup> International Conference on Concurrency Theory
- 2022 Davide Castelnovo, Fabio Gadducci, Marino Miculan, *A new criterion for  $\mathcal{M}, \mathcal{N}$ -adhesivity, with an application to hierarchical graphs*, Proceedings of the 25<sup>th</sup> International Conference on Foundations of Software Science and Computation Structures
- 2022 Davide Castelnovo, Marino Miculan, *Fuzzy Algebraic Theories*, Proceedings of the 30<sup>th</sup> EACSL Annual Conference on Computer Science Logic
- 2021 Davide Castelnovo, Marino Miculan, *Closure Hyperdoctrines*, Proceedings of the 9<sup>th</sup> Conference on Algebra and Coalgebra in Computer Science

---

## Seminars, Colloquia, Talks

- Jun. 2025 **Talk at 9<sup>th</sup> International Conference on Algebra and Coalgebra in Computer Science, “EGGs are adhesive!”**, University of Strathclyde, Glasgow, Scotland
- Sep. 2024 **Talk at 35<sup>th</sup> International Conference on Concurrency Theory, “Left-Linear Rewriting in Adhesive Categories”**, University of Calgary, Calgary, Canada
- Mar. 2024 **Talk at Workshop on Process Theory for Security Protocols and Cryptography “On the axioms of  $\mathcal{M}, \mathcal{N}$ -adhesive categories”**, Tallinn Institute of Technology, Tallinn, Estonia
- Feb. 2024 **Talk at 35<sup>th</sup> Estonian and the 9<sup>th</sup> Joint Estonian-Latvian Theory Days “On the axioms of  $\mathcal{M}, \mathcal{N}$ -adhesive categories”**, Randivälja, Estonia
- Feb. 2024 **Talk at TallCat - Compositional Systems and Methods group at Tal-Tech, “On the axioms of  $\mathcal{M}, \mathcal{N}$ -adhesive categories”**, Tallinn Institute of Technology, Tallinn, Estonia

- Jul. 2023 **Talk at PRIN 2017 “IT-MATTERS” Final Workshop “ $\mathcal{M}, \mathcal{N}$ -adhesivity: results and examples”**, *Scuola IMT Alti Studi*, Lucca, Italy
- Dec. 2022 **3<sup>rd</sup> ItaCa Workshop**, *University of Pisa*, Pisa, Italy
- Sep. 2022 **9<sup>th</sup> Symposium on Compositional Structures**, *University of Como*, Como, Italy
- Apr. 2022 **Talk at 25<sup>th</sup> 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
- Feb. 2022 **Talk at 30<sup>th</sup> EACSL Annual Conference on Computer Science in Logic 2022, “Fuzzy Algebraic theories”**, *University of Göttingen*, Göttingen (online), Germany
- Mar. 2021 **Talk at 22<sup>nd</sup> Graduate Student Conference in Logic “Closure Hyperdoctrines”**, *University of Illinois*, Urbana-Champaign (online), United States of America
- Sep. 2021 **International Conference on Algebra, Topology and Their Interactions**, *Udine (online)*, Italy
- Sep. 2021 **Talk at 9<sup>th</sup> Conference Conference on Algebra and Coalgebra in Computer Science, “Closure Hyperdoctrines”**, *University of Salzburg*, Salzburg, Austria
- Apr. 2021 **Midlands Graduate School in the Foundations of Computing Science**, *University of Sheffield*, Sheffield (online), United Kingdom
- Oct. 2020 **Talk at TallCat - Compositional Systems and Methods group at TalTech, “Equational theories in an enriched context”**, *Tallinn Institute of Technology*, Tallinn (online), Estonia
- Mar. 2020 **Talk at 25<sup>th</sup> Estonian Winter School in Computer Science, “Preclosure Hyperdoctrines, Completeness of (Higher Order) Spatial Logic for Closure Spaces”**, *Tallinn Institute of Technology*, Tallinn, Estonia
- Dec. 2019 **1<sup>st</sup> ItaCa Workshop**, *University of Milano*, Milano, Italy