

Ivan Di Liberti

Category theory, Logic, Foundations

Contact

addr Institute of Mathematics
Czech Academy of Sciences
Žitná 25, Prague.
mail diliberti.math@gmail.com
web diliberti.github.io

Current Position

Postdoc, *Czech Academy of Sciences*, Prague, since Jul 2020.

Grant: GX20-31529X.

Coordinator: prof. Wiesław Kubiś.

Ph.D Student, *Masaryk University*, Brno, since Feb 2017.

Dissertation: The Scott adjunction - Towards formal model theory. Under evaluation.

Advisor: prof. Jiří Rosický.

Expected defence: mid September 2020.

Education

2016 **Graduate Student in Pure Mathematics**, *Università di Pisa*.

Dissertation: A survey on Barr's Theorem.

Advisors: Prof. Nicola Gambino, prof. Alessandro Berarducci.

2015 **Bachelor Student in Pure Mathematics**, *Università di Pisa*.

Dissertation: Definable groups in o-minimal structures.

Advisor: Prof. Alessandro Berarducci.

Research

Publications

2020 **Codensity: Isbell duality, pro-objects, compactness and accessibility**, *Journal of Pure and Applied Algebra*, doi:10.1016/j.jpaa.2020.106379.

2019 **Weak saturation and weak amalgamation property**, *Journal of Symbolic Logic*, doi:10.1017/jsl.2019.45.

2018 **Homotopical Algebra is not concrete**, j/w F. Loregian, *J. Homotopy Relat. Struct.* (2018) 13: 673.

Preprints

2019 **Gabriel-Ulmer duality for topoi and its relation with site presentations**, j/w Julia Ramos Gonzalez.

2019 **On the unicity of formal category theories**, j/w F. Loregian.

2018 **Accessibility and Presentability in 2-categories**, j/w F. Loregian.