Ivan Di Liberti

Contact

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Czech Academy of Sciences
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Current Position

Postdoc, *Czech Academy of Sciences*, Prague, since Jul 2020.
Grant: GX20-31529X.
Coordinator: Wiesław Kubiś.

Education

2020   **Ph.D. in Mathematics**, *Masaryk University*, Brno, since Feb 2017.
Dissertation: The Scott adjunction - Towards formal model theory. Under evaluation.
Advisor: Jiří Rosický.
Expected defence: mid September 2020.

2016   **MSc in Mathematics**, *Università di Pisa*.
Dissertation: A survey on Barr's Theorem.
Advisors: Nicola Gambino, Alessandro Berarducci.

2015   **BSc in Mathematics**, *Università di Pisa*.
Dissertation: Definable groups in o-minimal structures.
Advisor: Alessandro Berarducci.

Research

Publications

2020   **Gabriel-Ulmer duality for topoi and its relation with site presentations**, j/w Julia Ramos Gonzalez, Applied Categorical Structures, doi:10.1007/s10485-020-09605-x.

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

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

Teaching & Supervision

Teaching: MUNI

2020   **Topology**, *Teaching assistant*.

2019   **Topics in Category Theory**, *Instructor (shared with John Bourke)*.

2019   **Topology**, *Teaching assistant*.

2018   **Topics in Category Theory**, *Instructor (shared with John Bourke)*.

2017   **Rings and Modules**, *Teaching assistant*.

Teaching: UniPi

2016 **Tutor**, *I have tutored courses of first two years, especially Algebra courses.*

Thesis Reader: MUNI

2019 **Yuriy Dupyn**, *Algebraic Structures*, bachelor thesis.

2018 **Jan Jurka**, *Locally presentable categories*, bachelor thesis.

2018 **Vladislav Demenchuk**, *Elements of nonstandard analysis*, bachelor thesis.

Supervisor: MUNI

2020 **Vít Jelínek**, bachelor thesis in CS, in progress.

▬ Service

MathOverflow.

2020 **ItaCaFest**, Program commettee.

2020 **Masaryk University Algebra Webinar**, *Masaryk University*, Main organizer.

2019 **ItaCa I**, *Università di Milano*, Program commettee.

2018 **PSSL103**, *Masaryk University*, Organizer.