

Department of Mathematics, Stockholm University, Kräftriket 5A, Stockholm.

Appointments ____

Postdoc Gothenburg, Sweden

University of Gothenburg, Department of Philosophy, Linguistics and Theory of Science

Grant: Logical Foundations of Circularity Supervisor: Graham Leigh

Postdoc Stockholm, Sweden

STOCKHOLM UNIVERSITY, DEPARTMENT OF MATHEMATICS

Grant: SRC 2019-04545 Supervisor: Anders Mortberg

Postdoc Prague, Czech Republic

CZECH ACADEMY OF SCIENCES, INSTITUTE OF MATHEMATICS

Grant: GX20-31529X Coordinator: Wiesław Kubiś

Education

Ph.D. in Mathematics Brno, Czech Republic Feb. 2017 - Sept. 2020 MASARYK UNIVERSITY

Dissertation: The Scott Adjunction

Advisor: Jiří Rosický

MSc in Mathematics Pisa. Italy

HNIVERSITÀ DI PISA Dissertation: A survey on Barr's Theorem

Advisors: Nicola Gambino, Alessandro Berarducci

BSc in Mathematics Pisa, Italy

UNIVERSITÀ DI PISA Sept. 2011 - Mar. 2015

Dissertation: Definable groups in o-minimal structures

Advisor: Alessandro Berarducci

Publications

2023	KZ-pseudomonads and Kan Injectivity , Theory and Applications of Categories, arXiv:2211.00380.	j/w Lobbia, Sousa
2022	Accessibility and Presentability in 2-categories, Journal of Pure and Applied Algebra,	i/w Fosco Loregian
2022	10.1016/j. inner 2022.1071FF	J/W FOSCO LOTEGIUTI

2022 10.1016/j.jpaa.2022.107155.

j/w Julia Ramos

Exponentiable Grothendieck categories in flat Algebraic Geometry, Journal of Algebra, 2022 10.1016/j.jalgebra.2022.03.040.

González

Oct 2023 - Oct 2026

Jan 2022 - Sept 2023

Jul 2020 - Dec 2021

Mar. 2015 - Dec. 2016

Enriched locally generated categories, Theory and Applications of Categories, Vol. 38, 2022, No. 2022

i/w Jiří Rosický

17, pp 661-683. General facts on the Scott Adjunction, Applied Categorical Structures, 2021

10.1007/s10485-021-09666-6.

Towards Higher Topology, Journal of Pure and Applied Algebra, 10.1016/j.jpaa.2021.106838. 2021

Functorial Semantics for Partial Theories, Symposium on Principles of Programming Languages i/w Loregian, 2021 (POPL21), 10.1145/3434338. Nester, Sobocinski

Codensity: Isbell duality, pro-objects, compactness and accessibility, Journal of Pure and 2020

Applied Algebra, 10.1016/j.jpaa.2020.106379

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

Weak saturation and weak amalgamation property, Journal of Symbolic Logic, 2019

10.1017/jsl.2019.45

Homotopical Algebra is not concrete, Journal of Homotopy and Related Structures, 2018 j/w Fosco Loregian 10.1007/s40062-018-0197-3

Preprints

2023	Coalgebras for Vietoris and monadicity, arXiv:2302.09529. New.	j/w Marco Abbadini
2022	The geometry of coherent topoi and Ultrastructures, arXiv:2211.03104. Submitted.	
2022	Bi-accessible and bipresentable 2 -categories , arXiv:2203.07046. Submitted.	j/w Axel Osmond
2021	Context, Judgement, Deduction, arXiv:2111.09438. Submitted.	j/w Greta Coraglia

Context, Judgement, Deduction, arXiv:2111.09438. Submitted.
 Formal Model Theory & Higher Topology, arXiv:2010.00319. Submitted.

Supervision _____

PhD students, *Errol Yuksel*: supervison for a project on topos-theoretic Galois theory, Stockholm University.

Bachelor students, *Vít Jelínek*: Categorical View of Monads in Computer Science, Computer Science, Masaryk University. *Kento Okura*: Mathematics, Vienna University. *Alexander Lind*: Mathematics, Stockholm University cosupervised with Peter Lumsdane. *Jonathan Osser*: Mathematics, Stockholm University cosupervised with Anders Mortberg.

SIGPLAN long-term mentorship program, The SIGPLAN long-term mentorship program. helps junior researchers and master students to form long-term connections in the programming languages community, and to access the perspectives of researchers from other institutions. Since Summer 2021 I am mentor in this project. I have 3 mentees.

Teaching _____

2023	Categorical Logic, Lecturer, Stockholm University, Stockholm, Sweden.	
2021	Sheaves, Manifolds and Cohomology , Lecturer, Charles University, Prague, Czechia.	j/w Andrea Gagna
2020	Category Theory , Lecturer, Institute of Mathematics, Czech Academy of Sciences, Prague, Czechia.	
2020	Topology , Teaching Assistant, Masaryk University, Brno, Czechia.	
2019	Topics in Category Theory , Lecturer, Masaryk University, Brno, Czechia.	j/w John Bourke
2019	Topology , Teaching Assistant, Masaryk University, Brno, Czechia.	
2018	Topics in Category Theory , Lecturer, Masaryk University, Brno, Czechia.	j/w John Bourke
2017	Rings and Modules, Teaching Assistant, Masaryk University, Brno, Czechia.	

Awards _

Masaryk University Vice-rector's award for excellent results in doctoral studies, Forty

graduates of doctoral programmes and their lecturers have recently accepted from Vice-rector for research and doctoral studies Šárka Popíšilová an award for excellent achievements in their doctoral studies at Masaryk University.

JULY 20, 2023 IVAN DI LIBERTI · RÉSUMÉ



ItaCa, Promoting Committee, ItaCa is the Italian community of category theory. The project was founded by Giuseppe Metere in 2019. I was invited by Andrea Montoli to join the Programme commettee of ItaCa 1, the first official meeting of the commutiny. The event took place at the University of Milano, the webpage of the event is still available at this link. Since this invitation I have been an active member of ItaCa. In the same year I was invited to join the Program Commetee of ItaCa Fest. ItaCa Fest is a webinar aimed to gather the community of ItaCa. Click here to visit the webpage of the Fest. Since January 2021 I am one of the members of the Promoting Committee, this is the coordinating committee of the entire project.

Bohemian Logical & Philosophical Café, Founder, Scientific commettee and Coordinator, Since my arrival at the Maths Institute of the Czech Academy of Sciences I promoted and I have been the general coordinator of a new initiative of webinars in emerging topics in logic. The project has a quite broad scope and is willing to encompass a variety of subjects: theoretical computer science, category theory, mathematical logic, and philosophy. More information is available here.

Masaryk University Algebra Webinar, Founder and main organizer until July 2020, During pandemics I promoted to transform the local Algebra permanent seminar of Masaryk University into a permanent webinar. Especially at the beginning the whole organization was upon myself, many of the first speakers were directely suggested by me. I maintained the webpage and the youtube channel until the end of my PhD studied. Nowadays the webpage and youtube channel are maintained by John Bourke.

Peripatetic Seminar on Sheaves and Logic 103, Promoter and Coordinator, PSSL103 is a Peripatetic event in Categorical Logic. During my first year of PhD (2018) I promoted an instance of this tradition in Masaryk University. Having the approval of my advisor and Peter Johnstone, I was in charge of the organization. I coordinated the effort of other researchers, such as John Bourke, Simon Henry, Fosco Loregian and Micheal Lieberman. The webpage of the event is not online anymore, but the event is listed in this webpage.

Referee, I was a referee for Compositionality (1), Conference on Mathematical Foundations of Programming Semantics (1) and Applied Categorical Structures (1), International Conference on Formal Structures for Computation and Deduction (1).

Thesis Reader at Masaryk University, Masaryk University evaluation process for Bachelor and Master thesis is based on a double review system. One review comes from the advisor of the student and another one comes from an internal opponent. Both the reviews must describe, discuss and finally score the thesis from A to F. During my PhD studies I was three times opponent for bachelor theses. 2019: Yuriy Dupyn, Algebraic Structures. 2018: Jan Jurka, Locally presentable categories. 2018: Vladislav Demenchuk, Elements of nonstandard analysis.

Thesis Reader (Granskare) at Stockholm University, Stockholm University evaluation process for Bachelor and Master thesis is based on a double review system. A part of the evaluation comes from an opponent and another one comes from a reader (granskare). The granskare must assess whether the thesis is solid enough to be defended. During my stay in Stockholm I was granskare few times. 2022: Thea Li, The internal logic of a topos. 2023: Caroline Roos, Agda formalization of Lindenbaum-Tarski algebras.

MathOverflow, top 5 % user, MathOverflow is a mathematics question-and-answer (Q&A) website, which serves as an online community of researchers in mathematics. It allows users to ask questions, submit answers, and rate both, all while getting merit points for their activities. It is a part of the Stack Exchange Network and has an internal rating system based on the reputation gained by the users within the website. Here is my profile webpage.