

Giacomo Tendas

PERSONAL DETAILS

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Google Scholar
Orcid: 0000-0003-1001-6690
City: Brno, Czech Republic
Nationality: Italian
Date of birth: 25 November 1993
Place of birth: Oristano (Italy)
Current affiliation: Department of Mathematics, Masaryk University



APPOINTMENTS

2022 - current

Postdoc - Department of Mathematics, Masaryk University

Project: Enriched categories and their applications.
Coordinators: Jiří Rosický and John Bourke.

EDUCATION

2019 - 2022

Ph.D. in Mathematics, Macquarie University - Australia.

- Title: Topics in the theory of enriched accessible categories.
- Available at: <https://doi.org/10.25949/21638081.v1>
- Supervisor: A/Prof. Stephen Lack (principal) and Richard Garner (associate).

2018 - 2019

Master of Research in Mathematics, Macquarie University - Australia.

High Distinction, April 2019.

- Title: Enriched Regular Theories.
- Available at: <https://doi.org/10.25949/19443470.v1>
- Supervisor: A/Prof. Stephen Lack.

2015/2016 - 2016/2017

Master Degree in Mathematics, Università di Pisa - Italy.

110/110 cum laude, 15 December 2017

- Master Dissertation: Strongly Preserved Formulas in Topoi.
- Available at: <https://etd.adm.unipi.it/t/etd-11222017-094128/>
- Supervisor: Prof. Andreas R. Blass.

2012/2013 - 2014/2015

Bachelor Degree in Mathematics, Università di Pisa - Italy.

110/110 cum laude, 16 October 2015

- Bachelor Dissertation: ∂ -Ramsey Theorem and a van der Corput Lemma.
- Supervisor: Prof. Mauro Di Nasso.

JOURNAL PUBLICATIONS

- ❑ Stephen Lack and Giacomo Tendas. Virtual concepts in the theory of accessible categories. *Journal of Pure and Applied Algebra*, Volume 227, Issue 2, February 2023, 107196. Available at <https://doi.org/10.1016/j.jpaa.2022.107196>.

- Stephen Lack and Giacomo Tendas. Flat vs. filtered colimits in the enriched context. *Advances in Mathematics*, Volume 404, Part A, 6 August 2022, 108381. Available at: <https://doi.org/10.1016/j.aim.2022.108381>.
- Giacomo Tendas. On continuity of accessible functors. *Applied Categorical Structures*, 10.1007/s10485-022-09677-x, 2022. Available at: <https://doi.org/10.1007/s10485-022-09677-x>.
- Branko Nikolić, Ross Street, and Giacomo Tendas. Cauchy completeness for DG-categories. *Theory and Applications of Categories*, Volume 37, 2021, No. 28, pp 940–963. Available at: <http://www.tac.mta.ca/tac/volumes/37/28/37-28abs.html>.
- Stephen Lack and Giacomo Tendas. Enriched regular theories. *Journal of Pure and Applied Algebra*, Volume 224, Issue 6, June 2020, 106268. Available at: <https://doi.org/10.1016/j.jpaa.2019.106268>.

PREPRINTS

- Giacomo Tendas. Dualities in the theory of accessible categories. *submitted*, 2023, <https://arxiv.org/abs/2302.06273>.
- Stephen Lack and Giacomo Tendas. Accessible categories with a class of limits. *submitted*, 2022, <https://arxiv.org/abs/2212.07135>.

AWARDS

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| 2023 | Excellent reviews on a EPSRC postdoctoral fellowship on the development of “Enriched Categorical Logic” — All reviewers gave an overall assessment of 6/6 with High Confidence — Outcome expected in August 2023. |
| 2022 | Vice-Chancellor’s Commendation for Academic Excellence - Macquarie University, Australia. |
| 2021 | Honourable mention for the B. H. Neumann Prize (best student talk) at the 65th Annual Meeting of the Australian Mathematical Society (AustMS2021). |
| 2021 | Best talk at the Australian Kittens 2021 conference. |
| 2019 | International Macquarie University Research Excellence Scholarship (iMQRES) - Ph.D (3 years). |
| 2018 | International Macquarie University Research Excellence Scholarship (iMQRES) - Master of Research (1 year). |

INVITED TALKS

- *Equivalent characterizations of accessible \mathcal{V} -categories* - ItaCa Fest 2020 Xmas edition (online), 16 December 2020.

SELECTED TALKS

- *On continuity of functors between locally presentable categories* - 65th Annual Meeting of the Australian Mathematical Society (AustMS2021), University of Newcastle and online, 7-10 December 2021.
- *Flat vs. filtered colimits* - International Category Theory Conference (CT20→21), Università di Genova and online, 30 August to 4 September 2021.
- *Dualities for accessible categories* - 64th Annual Meeting of the Australian Mathematical Society (AustMS2020), University of New England (online), 8-11 December 2020.
- *Enriched regular theories* - International Category Theory Conference (CT2019), University of Edinburgh, 7-13 July 2019.

LOCAL TALKS

Here is a list of talks I gave at the Australian Category Seminar during my MRes/PhD:

- *Some facts about sound classes of weights* - 2 March 2022.
- *On continuity of accessible \mathcal{V} -functors* - 29 September 2021.
- *Flat vs. filtered colimits* - 27 January 2021.
- *Dualities for accessible categories* - 2 December 2020.
- *Accessible categories with limits of some class* - 5 August 2020.
- *Equivalent characterizations of accessible \mathcal{V} -categories (part 2)* - 1 April 2020.
- *Equivalent characterizations of accessible \mathcal{V} -categories (part 1)* - 11 March 2020.
- *Definable enriched categories* - 1 May 2019.
- *Makkai's theorem in the enriched context* - 20 March 2019.
- *Barr's embedding in the enriched context* - 6 March 2019.
- *An Introduction to definable additive categories* - 26 September 2018.
- *Strongly preserved formulas in toposes* - 25 July 2018.

EVENTS ORGANIZED

- *Australian Category Seminar* - 2022
<http://web.science.mq.edu.au/groups/coact/seminar/>.
- *Categories and Companions Symposium* - June 8-12, 2021
<http://web.science.mq.edu.au/groups/coact/seminar/CaCS2021/>.

REFEREEING ACTIVITIES

I have refereed for the following journals: Mathematical Structures in Computer Science, Theory and Applications of Categories, Applied Categorical Structures.

TEACHING EXPERIENCE

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| <i>2022, Session 1</i> | Small Group Teaching Activity - MATH1015 Mathematical Modelling IA (Advanced) and MATH1020 Calculus and Linear Algebra II, Macquarie University. |
| <i>2021, Session 2</i> | Small Group Teaching Activity - MATH1007 Discrete Mathematics I, Macquarie University. |
| <i>Session 1</i> | Small Group Teaching Activity - MATH1010 Calculus and Linear Algebra I and MATH1020 Calculus and Linear Algebra II, Macquarie University. |
| <i>2020, Session 2</i> | Small Group Teaching Activity - MATH1010 Mathematical Modelling IA and MATH1020 Mathematical Modelling IB, Macquarie University. |
| <i>Session 1</i> | Small Group Teaching Activity - MATH1015 Mathematical Modelling IA (Advanced), Macquarie University. |
| <i>2019, Session 2</i> | Small Group Teaching Activity - MATH135 Mathematics IA, Macquarie University. |
| <i>Session 1</i> | Small Group Teaching Activity - MATH135 Mathematics IA, Macquarie University. |

LANGUAGES

Italian: Mother Tongue.
English: Fluent.