

Thomas Tony | Curriculum vitae

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Last updated: March 1, 2025

Education

- 2022 – present PhD in Mathematics (Dr. rer. nat.), University of Münster.
 - advisor: [R. Zeidler](#)
- 2019 – 2022 Master of Science in Mathematics, University of Freiburg.
- 2013 – 2019 First State Exam in Mathematics and Physics (teaching degree), University of Freiburg.

Scholarships, grants and awards

- 2022 Doctoral position funded by the [Cluster of Excellence Mathematics Münster](#).
- 2020 Deutschlandstipendium, University of Freiburg.
- 2013 DMV-Abiturpreis, Deutsche Mathematiker-Vereinigung.

Invited research seminar talks

- 05/2025 Research Seminar Differential Geometry, University of Potsdam.
- 04/2024 Arbeitsgruppenseminar Ammann, University of Regensburg.
- 01/2024 Oberseminar Differentialgeometrie, University of Freiburg.
- 11/2023 Geometric Analysis Seminar, The City University of New York.
- 01/2023 Arbeitsgruppenseminar Tuschmann, Karlsruhe Institute of Technology.

Invitations to conferences and workshops

- 02/2024 Oberwolfach workshop: Analysis, Geometry and Topology of Positive Scalar Curvature Metrics [🔗](#).

Organized conferences and workshops

- 08/2024 Young Topologist Meeting (YTM) [🔗](#), Cluster of Excellence Mathematics Münster.

Participation in conferences and workshops

- 05/2025 Geometric Moduli Spaces - Rigidity, Genericity, Stability [🔗](#), ICMS, Edinburgh.
- 11/2024 Curvature and Geometric Analysis in Rome [🔗](#), Poster presented, Sapienza Università di Roma.
- 03/2024 Mathematics Münster Mid-term Conference [🔗](#), Cluster of Excellence Mathematics Münster.
- 12/2023 Workshop on Operator Algebras and Applications: Non-Commutative Geometry [🔗](#), Fields Institute, Toronto.
- 10/2023 Autumn School on Large Scale Geometry [🔗](#), Gong Talk given, University of Göttingen.
- 08/2023 Workshop on Curvature and Global Shape [🔗](#), Poster presented, Cluster of Excellence Mathematics Münster.
- 04/2023 *Higher Structures in Geometry and Mathematical Physics* [🔗](#), Centre International de Rencontres Mathématiques, Marseille.

Research stays

- 04/2024 Guest of the [SFB Higher Invariants](#) (one week), University of Regensburg.
- 11/2023 Visiting [Renato G Bettiol](#) (one week), The City University of New York.

Teaching experience

University of Münster

Winter 2024/25 *Differential Geometry PhD Seminar*.

Summer 2023 *Differential Equations*, Tutor, Lecture given by [T. de Laat](#).

University of Freiburg (as a tutor)

2015 – 2022 *Linear Algebra I and II (2x)*, *Analysis I and II*, *Multiple Integration* (teaching degree), *Complex Analysis*, *Differential Geometry*.

High School Teaching & Instruction

2016 – 2022 Learn coaching, [Das Lernteam](#).

2016 – 2020 Preparation for the General Certificate of Education in mathematics, [Abiturma](#).

Scientific memberships

2022 – present Member of the [Cluster of Excellence "Mathematics Münster: Dynamics – Geometry – Structure"](#).

2022 – present Member of the [SFB 1442 "Geometry: Deformations and Rigidity"](#).

2022 – present Member of the [Mathematics Münster Graduate School](#).

Language skills

German (native), English (fluent), French (basic)

Technical skills

Latex, Python, HTML, Linux

List of publications

Peer-reviewed articles

- [1] T. Tony. "Scalar curvature rigidity and the higher mapping degree." In: *Journal of Functional Analysis* 288.3 (2025). DOI: [10.1016/j.jfa.2024.110744](https://doi.org/10.1016/j.jfa.2024.110744).

Preprints

- [2] T. Tony. *A note on Ricci-flat manifolds, parallel spinors and the Rosenberg index*. Preprint. 2024. arXiv: [2411.03882](https://arxiv.org/abs/2411.03882) [[math.DG](#)].

Theses

- [3] T. Tony. *Die Riemannsche Vermutung und die Primzahlverteilung*. <https://ttony.eu/documents/thesis-state-exam.pdf>. State exam's thesis (accepted as Bachelor's thesis as well), advisor: [K. Wendland](#), University of Freiburg. 2019.
- [4] T. Tony. *The End-Periodic Index Theorem for Dirac Operators and its Connection to the Classical Atiyah-Patodi-Singer Index Theorem*. <https://ttony.eu/documents/thesis-master.pdf>. Master's thesis, advisor: [N. Große](#), University of Freiburg. 2022.