

Thomas Tony | Curriculum vitae

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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 – present Doctoral position founded by the [Cluster of Excellence Mathematics Münster](#).
- 2020 – 2021 Deutschlandstipendium, University of Freiburg.
- 2013 DMV-Abiturpreis, Deutsche Mathematiker-Vereinigung.

Invited research seminar talks

- 01/2024 *Scalar curvature comparison and the higher mapping degree*, Oberseminar Differentialgeometrie, University of Freiburg.
- 11/2023 *Scalar curvature comparison and the higher mapping degree*, Geometric Analysis Seminar, The City University of New York.
- 01/2023 *An Index Theorem for End-Periodic Dirac Operators*, Arbeitsgruppenseminar Tuschmann, Karlsruhe Institute of Technology.

Conferences, workshops and research schools

- 12/2023 Operator Algebras and Applications: Non-Commutative Geometry [🔗](#), Workshop, Fields Institute, Toronto.
- 10/2023 On Large Scale Geometry [🔗](#), Autumn School, Gong Talk given, University of Göttingen.
- 08/2023 Curvature and Global Shape [🔗](#), Workshop, Poster presented, Cluster of Excellence Mathematics Münster.
- 04/2023 *Higher Structures in Geometry and Mathematical Physics* [🔗](#), Research school, Centre International de Rencontres Mathématiques, Marseille.

Research stays

- 11/2023 Visiting [Renato G Bettiol](#), The City University of New York.

Teaching experience

University of Münster

Summer 2023 *Differential Equations*, Tutor, 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*.

Extramural teaching

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

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

Language skills

German (native), English (B2 in parts C1), French (B1)

Technical skills

Latex, Python, Linux

Theses

- [1] 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.
- [2] 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.