Thomas Tony | Curriculum vitae

Mathematisches Institut – Einsteinstrasse 62 – 48149 Münster, Germany +49 251 83-36869 ✓ thomas.tony@uni-muenster.de ❤ www.ttony.eu Last updated: November 13, 2024

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

- 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) <a>™, Cluster of Excellence Mathematics Münster.

Participation in conferences and workshops

- 11/2024 Curvature and Geometric Analysis in Rome Z, Sapienza Università di Roma.
- 03/2024 Mathematics Münster Mid-term Conference Z, Cluster of Excellence Mathematics Münster.
- 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.

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.

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Teaching experience

University of Münster

Winter 2024/25 Differential Geometry PhD Seminar.

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.

Scientific memberships

2024 - present Part of the ERC Starting Grant - COMSCAL "Comparison and rigidity for scalar curvature".

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). To appear. DOI: 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 [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.

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