

Leonard Busch

* 23/10/1999
✉ <https://leonardbusch.github.io>

Education

- 2022– **PhD**, University of Amsterdam, supervised by Leo Tzou
2020–2022 **MSc**, University of Amsterdam
2017–2020 **BSc**, University of Bonn

Publications

- [1] Leonard Busch and Leo Tzou. “An inverse problem with partial Neumann data and $L^{n/2}$ potentials”. English. In: *Inverse Probl. Imaging* 19.1 (2025), pp. 174–218. ISSN: 1930-8337. DOI: 10.3934/ipi.2024030. URL: <https://doi.org/10.3934/ipi.2024030>.

Preprints

- [2] Leonard Busch, Tony Liiatainen, Mikko Salo, and Leo Tzou. *Generalized boundary rigidity and minimal surface transform*. 2025. arXiv: 2510.23366 [math.AP]. URL: <https://arxiv.org/abs/2510.23366>.
- [3] Leonard Busch. *Analytic Fourier Integral Operators and a Problem from Seismic Inversion*. 2025. arXiv: 2505.08472 [math.AP]. URL: <https://arxiv.org/abs/2505.08472>.
- [4] Leonard Busch, Matti Lassas, Lauri Oksanen, and Mikko Salo. *On Exponential Instability of an Inverse Problem for the Wave Equation*. 2025. arXiv: 2506.23559 [math.AP]. URL: <https://arxiv.org/abs/2506.23559>.

Research Visits

- 01–07/2025 **Visiting Researcher**, University of Helsinki
invited by Lauri Oksanen

Invited Talks

- 10/2025 **Geometry and topology seminar**, NC State University
07/2025 **Applied inverse problems conference 2025**, FGV EMap Rio de Janeiro
05–06/2025 **Semiclassical analysis seminar**, University of Helsinki
Four lectures on analytic microlocal analysis
03/2024 **Inverse problems seminar**, University of Helsinki
02/2024 **Inverse problems seminar**, University of Jyväskylä
12/2023 **PDE & harmonic analysis seminar**, University of Bonn

Teaching Experience

- 2022– **Teaching assistant**, University of Amsterdam
○ Functional analysis
○ Numerical algorithms
2018 & 2020 **Teaching assistant**, University of Bonn
○ Analysis I
○ Statistics