

## Education

- 2022–      **PhD**, *Univeristy 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 Liimatainen, 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