



MSc Thesis Opportunity  
How Much Do Simple Cylinders Get Wrong?

## Required Background

- Master's student in Biomedical Engineering, Physics, Electrical Engineering, Neuroscience, or related field.
- Strong interest in **computational modeling and neurostimulation**.
- Experience with **Python/MATLAB** is required; familiarity with COMSOL or FEM tools is a plus.

## What We Offer

- Experience working with a **unique human vagus nerve dataset**.
- Training in **comparative neurostimulation modeling** and error analysis methods.
- Close supervision and interdisciplinary collaboration.
- Opportunity to contribute to a manuscript for publication.
- Insight into **clinical aspects of invasive neuromodulation**, including patient selection, surgery, and programming in individuals with severe psychiatric disorders (e.g., depression, OCD).

## Application

Interested students are invited to send a brief motivation statement to [max.haberbusch@meduniwien.ac.at](mailto:max.haberbusch@meduniwien.ac.at) and [christoph.kraus@meduniwien.ac.at](mailto:christoph.kraus@meduniwien.ac.at) with the subject line: *Master Thesis – Simplified VNS Models*. Applications will be reviewed on a rolling basis until the position is filled. **Preferred start date:** October 2025.