



Figure 1: me, searching for the best students out there.

Advisor: **Peter Waldert**

Area: *Simulations, Numerical Analysis, Visual Analytics*

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Lung CFD Simulation Result Visualisation

BACHELOR'S THESIS
SEMINAR PROJECT
MASTER'S THESIS

- Compare lab-measured particle size distributions with CFD-simulated predictions.
- Analyse correlations between experimental and simulated particle behavior.
- Cross-compare pressure and velocity data across multiple configurations.
- Develop standardized tools for experimental vs. computational data comparison.
- Establish quantitative metrics for validating simulation accuracy against the laboratory measurements.
- In collaboration with simulation researchers from FH Technikum Wien.