



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

Advisor: **Peter Waldert**

Area: *Simulations, Numerical Analysis, Visual Analytics*

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Interactive Visual Analysis of Traumatic Brain Injury Recordings

BACHELOR'S THESIS
SEMINAR PROJECT
MASTER'S THESIS

- Develop a Visual Analytics Interface for exploring and quantitatively analysing targeted traumatic brain injury recordings.
- Ability to perform visual segmentation of histopathological cuts.
- Overlay of per-location timeseries obtained through a multi-electrode-array.
- Comparison of within-lesion timeseries to other recordings (based on the image segmentation result).
- Become part of the newly approved ERC project *NeuroVitalizer*!
- In close collaboration with Prof. Theresa Rienmüller, researcher and ERC-grantee at the Institute of Biomechanics (TU Graz).