INSTITUTE OF VISUAL COMPUTING

TU Graz
SCIENCE PASSION TECHNOLOGY

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

Advisor: **Peter Waldert**

Area: *Simulations, Numerical Analysis, Visual Analytics*

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Interactive Wall Strengthening in 3D Printing

Bachelor's Thesis
Seminar Project
Master's Thesis

- Building an interface to visualise and edit wall strength in 3D printing.
- The interface should visualise a 3D model, overlay material strain (simulation results) and then enable the user to modify wall strengths in over- or under-strained areas to optimise material usage.
- An implementation could extend on top of the existing Prusa, Orca, Bambu, etc. viewers or a fresh approach.
- Goal: a useful interface for editing wall strength based on simulation results in an interactive 3D editor.

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