Advisor: **Peter Waldert**

Area: *Simulations, Numerical Analysis, Visual Analytics*

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

Simulation of Multi-Cell Interaction between A549 Lung Cancer Cells

- Simulation of multiple cells interacting in a controlled environment, modelling in-cell and between-cell ion concentrations.
- Building on top of an existing numerical simulation in Rust with bindings / interfaces to Python and TypeScript/JavaScript.
- Potential study of their collective behaviour.
- Goal: implementing an efficient multi-cell simulation environment.