

Manuel Schölling



Research Group:

Prof. Stefan Thurner

Department:

**Section for Science of Complex Systems,
CeMSIS**

Current academic degree:

Dipl. Geophys.

Previous University:

WWU Münster

PhD Thesis:

Project title:

In-silico cells

Project description:

Living cells can be found in different states and can change from one state to another. E. g. a cell can change from a healthy state to a state of a cancer cell. The ways these state changes occur are still largely unknown. If it would be possible to control and trigger state changes from one mode to another, it would be possible to design patient-specific drugs on computers which restore pathologic cells into their regular state and have minimal side effects. The aim of this project is to design artificial cells on the computer and to generate a new point of view of cell dynamics to find new potential ways in drug design.