

EXPERIENCE

- **ETH Zürich** Zurich, Switzerland
Research Assistant September 2020 - Now
 - Hired for continued development of BEM code that was implemented in the Masters Thesis.**Technologies:** C++, CMake, Github
Theory: BEM, Resonances in Transmission Scattering Problems
- **ETH Zürich** Zurich, Switzerland
Teaching Assistant September 2020 - Now
 - Teaching Assistant for Lecture "Computational Methods for Engineering Applications".**Technologies:** C++, \LaTeX
Theory: ODEs, PDEs and numerical algorithms to solve them
- **CSCS Swiss National Supercomputing Center** Lugano, Switzerland
Internship May 2018 - August 2018
 - Writing regression checks for Piz Daint, Cray XC40/XC50 production system.**Technologies:** C, MPI, MySQL, Kibana, Grafana
- **Coople** Basel/Zurich, Switzerland
Logistics & Service 2013 - 2020
 - 50+ employments at events and meetings.
 - Favoured by 8 employers on the jobs distribution platform Coople due to reliability and efficiency.
- **Eugen Leu & Partner AG, Photography Studio** Riehen, Switzerland
Internship September 2011 - October 2011
 - Preparing photosets and learning professional workflows.

EDUCATION

- **ETH Zürich** Zurich, Switzerland
M.Sc. Computational Science and Engineering, Specialization Physics 2018 - 2020
 - Degree finished, staying enrolled to take courses from Maths Masters degree.
- **Universität Basel** Basel, Switzerland
B.Sc. Computational Mathematics 2014 - 2018
 - Completed extracurricular courses on Computer Architecture, Operating Systems and Quantum Mechanics.
- **Gymnasium Bäumlhof** Basel, Switzerland
Matura, Specialization Biology & Chemistry 2009 - 2014

- **CSCS Swiss National Supercomputing Center / USI Lugano**
Summer School

(remote) Lugano, Switzerland
2020

- GPU: architecture & programming (CUDA, OpenACC)
- JupyterLab
- Python: Numpy, SciPy, Dask, Numba
- ML: Rapids
- Deep Learning: TensorFlow

- **International Consulting Network (ICON)**
Student Consulting Network

Shanghai, (remote) Belo Horizonte
2017 - 2018

- Market Research & Trend Analysis
- Consulting for CREP (Real Estate, China) & Lalubema (Private Security, Brazil)

Following sections items are clickable

PROJECTS & THESIS

- Parallelizing the Barnes-Hut Algorithm with MPI: Parallelized implementation of N-Body solver in C++ using the MPI framework.
- AiiDA Lab implementation of IR spectrum calculations for carbon based nanomaterials: An AiiDa workflow implemented in the Jupyter Notebooks based AiiDa lab interface. (Semester Thesis)
- Near Resonances for Scattering Transmission Problems: A BEM based C++ solver for Scattering Transmission Problems, developed to investigate scatterer-dependent near resonances. (Masters Thesis)