

# Valentina Schüller

## Curriculum Vitae

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### Education

- since 2020 **M.Sc. Computational Science & Engineering**, *Technical University of Munich*.
- 2016 – 2020 **B.Sc. Engineering Science**, *Technical University of Munich*, 2.1 (passed with merits).  
focus areas: numerics, fluid dynamics, uncertainty quantification.
- 2008 – 2016 **General Higher Education Entrance Qualification (Abitur)**, *Städtisches Willi-Graf-Gymnasium München*, 1.0 (best possible grade).

### Work Experience

- 2018-2021 **Student Tutor**, *Technical University of Munich*.  
Three semesters of teaching for undergraduate students: Modeling and Simulation of Ordinary Differential Equations, Introduction to Mathematics. (Numerics, MATLAB)
- 2020 **Intern**, *Swedish Meteorological and Hydrological Institute (SMHI)*, Norrköping, Sweden.  
Bachelor's thesis at the Rossby Centre for Climate Research: *Monitoring Numerical Climate Simulations – A Tool for Runtime Analysis of EC-Earth* (1,0). Development of a real-time analysis tool for the EC-Earth climate model. (Python)
- 2018 – 2019 **Student Assistant**, *Technical University of Munich*.  
Chair for Computation in Engineering. Development of communication routines and logging procedures for a parallelized fluid dynamics solver. (MPI, C++)

### Languages

- German native speaker
- English C1
- Swedish A2

### Skills

- Programming working knowledge: (modern) C++, Python, MATLAB, MPI. basic knowledge: C, Java.
- Software Linux, Git, LaTeX.
- Soft Skills moderation and facilitation, project management, team building, working in international teams.
- Other certified youth leader (German certificate for youth leaders: JuLeiCa); teaching experience as an academic tutor and in civic/political education.

## Volunteer Work

### education-related

2017–2020 **student council of the Munich School of Engineering**, *Technical University of Munich*.

head of the student council, head of the department of university politics, elected member of the council of student representatives.

2012–2016 **school council**, *Städt. Willi-Graf-Gymnasium München*.

e.g. event planning, tutor for new students.

### beyond my education

since 2020 **elected member of the district council "Schwabing-West" in Munich**, *for the Social Democratic Party of Germany (SPD)*.

member of the committees for *traffic and mobility*, as well as *ecology, climate protection and public space*.

since 2016 **member of the advisory council of Munich's cultural education platform (Musenkuss München)**, *Cultural Department of the City of Munich*.

since 2015 **project-related youth work**, *Münchner Schüler\*innenbüro e.V. and Kreisjugendring München-Stadt*.

coordination of large events such as the Munich convention for high school students (besser::), member of multiple projects concerned with the political and civic education of students and young volunteers.