

Sandro Luh

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Academic Career

- Since 10.2018 **PhD in Energy Economics Group, Paul Scherrer Institute and ETH Zurich**
- Integration of innovative technologies and mobility travel behavior in the transport sector of a techno-economic energy systems model
- 02.2016 – 06.2018 **MSc Mechanical Eng. (Grade: 5.85 / 6.00), Focus: Energy Science, ETH Zurich**
- Passed with distinction (Grade better than 5.75)
 - Top 5% of all students
 - Focus: Energy Science; Minors: Energy Economics and Policies, Management
- 09.2017 – 04.2018 **International Master Thesis (Grade: 6.00 / 6.00), Imperial College London**
- Title: “Decarbonisation of the Industrial Sector by means of Electrification, Fuel Switching, and CCS”
 - Publishing 2 scientific papers as first author: 1 conference paper presented at ESCAPE 28; 1 journal paper (currently under preparation)
- 09.2012 – 08.2015 **BSc Mechanical Eng. (Grade: 4.79 / 6.00), Focus: Energy Science, ETH Zurich**
- 08.2002 – 07.2011 **A-level, Focus: Natural-Sciences (Grade: 1.6 / 1.0), Germany**

Work Experience

- 02.2016 – 12.2016 **Teaching Assistant (Linear Algebra I, Materials and Production II), ETH Zurich**
- Independent management of practice lessons for students
 - Communicating understanding of theoretical concepts in applicable tasks
 - Condensation of lecture content on relevant topics for successful exam
 - High participation rate of students
- 09.2015 – 02.2016 **Project Management V8 Engine-Development, Mercedes-AMG**
- Leading of the engineering team: time-, cost-, and resource-planning
 - Organising and leading committees
 - Developing and using a stock overview tool for long-term production planning (in close collaboration with Senior Manager)
 - Preparing information for management-presentations
- 09.2006 – 07.2014 **Private Tutor**
- Giving private lessons to pupils in the age between 13 and 19 years
 - Clear improvements in the performance of all students
- 05.2012 – 06.2012 **Workshop Internship, Infracor (today: Evonik Industries)**

Languages

- German** Mother tongue
- English** Proficient
- 09.2017 – 03.2018: Semester abroad at Imperial College London
 - 08.2011 – 04.2012: ‘Work & Travel’-year in Australia, New Zealand and Fiji
- Chinese (Mandarin)** Basic

Awards

- 06.2018 **Master Degree with Distinction** (Grade better than 5.75), **ETH Zurich**
- Top 5% of all students
- 10.2016 **BestStudentChallenge 2016: 6th place (of ~2000 in CH), Staufenberg Institut**
- Tested skills in a live-assessment center: Strategic thinking, communication, cooperation, initiative, creativity, and self-confident manner

IT Skills

	Good	Very good	Excellent
Operating Systems			
Windows	[Bar spanning Good, Very good, and Excellent]		
macOS	[Bar spanning Good, Very good, and Excellent]		
Engineering Tools			
MATLAB	[Bar spanning Good, Very good, and Excellent]		
GT POWER	[Bar spanning Good, Very good, and Excellent]		
Wolfram Mathematica	[Bar spanning Good, Very good, and Excellent]		
Application Software			
Microsoft Office	[Bar spanning Good, Very good, and Excellent]		
LaTeX	[Bar spanning Good, Very good, and Excellent]		
Siemens NX	[Bar spanning Good, Very good, and Excellent]		
Programming Languages			
C++	[Bar spanning Good, Very good, and Excellent]		
HTML	[Bar spanning Good, Very good, and Excellent]		
Python	[Bar spanning Good, Very good, and Excellent]		

Extracurricular Activities

- 10.2018 **ETH Week 2018 about “Energy Matters”, ETH Zurich**
- Identifying problems in the field of energy and developing innovative solutions
 - Applying design thinking methods in interdisciplinary teams
- 09.2016 – 06.2017 **Organising a Discovery Semester for Refugees, ETH Zurich**
- Organising networking-events for up to 130 people
 - Initiating and leading a football team (10 members), with tournament participation
- 02.2016 – 03.2017 **Model United Nations (MUN)**
- International conferences: CUIMUN 2016 (Cambridge), ZuMUN 2016 (Zurich)
 - Weekly debates at ETH MUN
- 06.2014 – 08.2017 **Tutor at Prestudy Events for Newcoming Students, ETH Zurich**
- 10.2012 – 06.2018 **University Policy-Team, ETH Zurich**
- Representing the interests of all students of the department (~2500)
 - Dialoguing with the rector, and participating in Department- and Tuition conferences
 - Improving the study-curriculum by giving inputs during collaboration with professors and department
 - Leading meetings with other university politicians
- 10.2012 – 06.2018 **Semester Representative, ETH Zurich**
- Organising exam preparation courses for up to 600 students (~40k CHF)
 - Improving lectures by working together with professors and students

Interests

Travelling (culture and nature), winter sports, diving, sailing, soccer, and tennis

References: Available upon request