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Winterthur - CH



## EDUCATION

### University of Edinburgh PhD in Biology

Edinburgh, United Kingdom  
Since Sept. 2020

- Competitively funded
- Established a CRISPR/Cas9-based cell line generation pipeline (plasmid design to cell line validation)
- Generated four human embryonal stem YAP/TAZ-reporter cell lines
- Developed a novel *in vitro* haematopoietic differentiation protocol
- Established various readout modalities (including live timelapse imaging, intracellular flow cytometry & molecular methods).
- Graduation date: July 2024

### ETH Zürich

Zurich, Switzerland  
Sept. 2018 – Mar. '20

- MSc in Biomedical Engineering** (Major: Molecular Bioengineering)
- Offered a spot in competitive program (Institute of Electrical Engineering)
  - Investigated Piezo1-mechanosensing in hBM-derived mesenchymal stem cells

#### Projects and relevant Courses:

- Practical Methods in Tissue Engineering
- Drug Delivery & Drug Targeting
- Immunology I-III

### ETH Zürich

Zurich, Switzerland  
Sept. 2013–Jan. '18

- BSc in Health Sciences and Technology** (Major: Medical Technology)
- Biomedical Research degree with emphasis on Molecular Health Science and Biomedical Engineering

#### Projects and relevant Courses:

- Cancer: Fundamentals, Origin and Therapy
- Molecular Disease Mechanisms I-II
- Laboratory Course in Molecular Biology

### Kantonsschule Rychenberg

Winterthur, Switzerland  
Aug. 2007 – Jul. '13

#### Matura (Majored in Latin and English)

- Regularly ranked among the most demanding middle schools in Switzerland

## EXPERIENCE

### University of Edinburgh

Edinburgh, United Kingdom  
Since Sept. 2020

#### Research Assistant (*Ontogeny of the Haematopoietic Stem Cell Lab*)

- Mentored junior Ph.D. candidates and supervised two student projects
- Contributed to laboratory upkeep. Proactively sought out ways to improve workflows and use cheaper/better reagents.
- Presented poster at a conference (European Stem Cell Summer School 2023)

### ETH Zurich

Zurich, Switzerland  
July 2019 – Mar. '20

#### Master thesis (*Orthopaedic Biomechanics*)

- Viral Transduction: Generated and validated a *PIEZO1*<sup>-/-</sup> Mesenchymal Stem Cell (MSC) Line
- Microfluidics, Calcium imaging: We showed Piezo1-dependence in shear-flow induced calcium influx in MSCs

#### Tutor ("Fundamentals in Information Technology" / "Introduction to Biomedical Engineering")

2015, '16

- Weekly drop-in classes with assessment of student-delivered solutions. Troubleshoot code & guide the student or, alternatively, recommend returning after revisiting the lecture materials.
- Presentation of self-prepared lectures on course material, discussion of the weekly exercises in plenum and exam preparation.

**BINT GmbH****Business Integrator / Head of Internal IT****Winterthur, Switzerland****Nov. 2016 – Sept. '20**

- Prepared and executed multiple pitch decks for prospective customers. Assisted in negotiations.
- Spearheading a formal process definition and various guidelines for our internal IT (Backup, Cybersecurity, Infrastructure/Mitigation)
- Responsible for assessment, acquisition and rollout of new software
- Project manager of a team of five software developers (all levels) developing an interface for and subsequent integration of external user-facing applications for a Swiss water management company, while delivering on time. Primary touchpoint and coordination contact for customer-side project manager.

**Additional Employments**

- Preparatory Teacher for National entry math exams - LearningCulture AG
- Biology Teacher for Disadvantaged Youth in deprived Scottish Areas - Edinburgh (online)
- Fitness Trainer - Charlie's Fitness GmbH
- Assistant Mechanic in Beznau Nuclear Power Plant - Axpo Holding
- Warehouse Supply Manager - Briner AG
- Waiter - Best Catering GmbH
- French, Math and Physics Private Tutor - Self-Employed

**ADDITIONAL INFORMATION****Extra-Curricular Activities**

- Student Representation: I was Co-Head Representative and during my mandate we facilitated access to Mental Health First Aider training for interested Postgraduate Research Students, established and secured Centre-based funding for regular social activities (Thursday Coffee Club, Board Game Night, Monthly Happy Hour) with regular turnup of more than 20 people and organised student-for-student workshops for open-source Illustration Software and Python Programming.
- Event planning: Hosted and Co-organised the local chapter of the science festival "Pint of Science" in Edinburgh
- Fraternity "Vitodurania": responsible for recruitment and training of new members

**Languages:** German (Native), English (Fluent), Italian (Conversational), French (Conversational)

**Computer Languages/Technical Competencies**

- Python: Various self-learned projects including Artificial Intelligence (TensorFlow), Cybersecurity
- ImageJ: Built multiple image analysis pipelines
- FCS Express: Proficient, Built interface to Python for high-dimensional, quantifiable analysis
- MS Office (Word, PowerPoint, Excel, OneNote, Outlook)

**Interests**

- Bike Packing
- Hiking
- Cooking for friends and family and hosting dinner parties