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📄 bbquercus.github.io

Summary

I finished my Master of Science in Molecular Biology before my 20th birthday (24.07.2000). Excluding my programming languages, speak 8 languages fluently, and love to travel to utilize my skills. I have around five years of experience in various positions.

Work Experience

- 2018 – **Master's student**, *Friedrich Miescher Institute for Biomedical Research*, Basel, CH.
- Present
- Master thesis project titled "Investigating the stress granule protein G3BP1 with single-molecule imaging of mRNA.". Thesis can be viewed [here](#).
 - As side-project developed an interactive image analysis platform based on deep-learning called Fluffy.
- 2018 **Research Assistant**, *Albert Ludwig University of Freiburg*, Freiburg im Brsg., DE.
- Research work after my Bachelor thesis in the Baumeister laboratory. Main focus on molecular genetics with *Caenorhabditis elegans*.
- 2017 – **Sacristan**, *RKK Oberwil*, Oberwil, CH.
- Present
- Preparation and lecturing during of all kinds of masses including funerals, baptisms etc.
 - Supervision of every (around 60) altar server including home page administration and a two-monthly work plan.
- 2016 – 2019 **Curling Instructor**, *Curlingzentrum Region Basel*, Arlseheim, CH.
- Regular instruction of groups introducing them to the sport of curling in various languages. Instructions for occasions such as corporate events, birthdays and school excursions.
- 2016 – 2019 **Tour Guide**, *NAZ Feldberg*, Feldberg, DE.
- Traineeship in environmental education and management of the nature reserve.
 - Guiding different types of tours and courses for German and French speaking school children of various ages.
- 2015 **Ticketing Manager**, *DAS ZELT AG*, Basel, CH.
- Operation of the company switchboard as well as mail service.
 - Administration of all ticketing operations along with reports and VIP-handling.
 - Supervision of box offices at locations all over Switzerland.

Education

- 2018 – **MSc in Molecular Biology**, *University of Basel*, Basel, CH.
- Present
- Master thesis at the Chao lab in the Friedrich Miescher Institute for Biomedical Research.
 - In-depth studies in biochemistry, epigenetics, biophysics, and neurology.
- 2015 – 2018 **BSc in Biology**, *Albert Ludwig University of Freiburg*, Freiburg im Brsg., DE.
- Bachelor thesis in eukaryotic genetics titled "Analysis of ENDU-2 targets in the germline of *Caenorhabditis elegans*".
 - In-depth studies in cell biology, eukaryotic genetics, prokaryotic genetics, and geobotany.

2014 – 2015 **BSc in Chemistry**, *Albert Ludwig University of Freiburg*, Freiburg im Brsg., DE.
Discontinued due to legal age restriction regarding laboratory work.

Abilities

- Scientific *C. elegans* methods, Confocal fluorescence microscopy, Fluorescent in-situ hybridization, Image analysis, Lentiviral transfections, Mammalian tissue culture methods, Plasmid design and construction, qPCR, RNA and protein immunoprecipitation, Western blotting.
- Programming
 - Python – Deep learning, Image analysis, Web development in Flask.
 - HTML, CSS, JavaScript – Web development in React.
 - Unix – Comfortable in Vim, Bash.
- Languages
 - Swiss German / German – Native
 - English – Native
 - Spanish – Full working proficiency
 - French – Full working proficiency
 - Italian – Full working proficiency
 - Brazilian Portuguese – Limited working proficiency
 - Norwegian – Limited working proficiency
 - Chinese – Limited working proficiency
 - Japanese – Basic proficiency
- Extracurricular
 - Active duty firefighter – Oberwil BL, Corporal
 - First Responder – Basel BS
 - Swimming with lifeguard certification – SLRG
 - Judo – Brown belt
 - Sailing – Swiss sailing license
 - Curling – Highest Swiss junior league
 - Scuba diving