

Summary

I finished my Master of Science in Molecular Biology at the age of 19 (born 24.07.2000). Excluding my programming languages, I speak 8 languages fluently and a couple of others less fluently. Besides constantly learning new things, I love to relax in nature. I have around six years of experience in various positions.

Work Experience

- 2020 – Present **Ph.D. Candidate**, *Friedrich Miescher Institute for Biomedical Research*, Basel, CH.
- Development of deepBlink, a threshold-independent tool for diffraction limited spot-detection.
 - Improving the SunTag translation site reporter using spaghetti monster.
- 2018 – 2020 **Master's Student**, *Friedrich Miescher Institute for Biomedical Research*, Basel, CH.
- Master thesis project titled "Investigating the stress granule protein G3BP1 with single-molecule imaging of mRNA". The thesis can be viewed [here](#).
 - As side-project developed an interactive, deep-learning-based, image analysis platform 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 – Present **Sacristan**, *RKK Oberwil*, Oberwil, CH.
- Preparation and lecturing during all kinds of masses including funerals, baptisms etc.
 - Supervision of around 60 altar servers including home page administration and a monthly work plan.
- 2016 – 2019 **Curling Instructor**, *Curlingzentrum Region Basel*, Arlesheim, 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 – 2017 **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.
- 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.
- 2013 – 2015 **Judo Instructor**, *Judo Schule Nippon Basel*, Basel, CH.
- Weekly instruction of school children at different ages.
 - Preparation and administration of belt examinations and tournaments.

Publications

Mateju D, **Eichenberger BT**, Voigt F, Eglinger J, Roth R, Chao JA. Single-molecule imaging reveals translation of mRNAs localized to stress granules. *Cell* 183 (7), 1801-1812. e13

Eichenberger BT, Zhan YX, Rempfler M, Giorgetti L, Chao JA. deepBlink: Threshold-independent detection and localization of diffraction-limited spots. *NAR*, accepted

Education

- 2020 – Present **Ph.D. in Cellular Biology**, *University of Basel*.
- 2018 – 2020 **MSc in Molecular Biology**, *University of Basel*.
- 2015 – 2018 **BSc in Biology**, *Albert Ludwig University of Freiburg*.
- 2014 – 2015 **BSc in Chemistry**, *Albert Ludwig University of Freiburg*.
Discontinued due to legal age restriction regarding laboratory work.

Abilities

- Scientific *C. elegans* methods, Confocal fluorescence microscopy, Fluorescent in-situ hybridization, Lentiviral transfections, Mammalian tissue culture methods, Plasmid design and construction, qPCR, RNA and protein immunoprecipitation, Western blotting.
- Programming
 - Data Science – Deep learning with TF2.x, data visualization, biomedical image analysis.
 - Web development – WordPress, Vue, Flask.
 - Unix – Comfortable in Vim, Bash.
- Languages
 - Fluent – Swiss German / German, English, Spanish, French, Italian, Portuguese, Norwegian.
 - Limited – Chinese, Japanese.
- Extracurricular
 - Active duty firefighter – Oberwil BL, Corporal
 - First responder – Switzerland
 - Swimming with lifeguard certification – SLRG
 - Sailing – Swiss sailing license
 - Private Pilot Licence – Theory so far, practice after COVID-19
 - Dry Suit Scuba diving
 - Hydroponic gardening