

MARK ZURBRUEGG

Molecular Biologist & Coder

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📍 Edinburgh, UK
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EXPERIENCE

Doctoral Student

University of Edinburgh

📅 August 2019 – Ongoing 📍 Edinburgh, UK

- Created new *E. coli* strain using Gibson assembly
- Investigated triggers of the osmotic shock response
- Built automated analysis platform for our custom built bioreactor in Python
- Used custom R script to analyze protein expression in response to osmotic shock

Research Associate

Karolinska Institute

📅 Sept 2016 – October 2019 📍 Stockholm, Sweden

- Published first author article about glucocerebrosidase in Parkinsons
- Developed new technique to measure α - synuclein lipid binding affinity using recombinant protein

Master Student

Universitätsspital Zürich

📅 2014 – 2016 📍 Zürich, Switzerland

- Worked in a team to develop a high-throughput siRNA screen

Undergraduate Student

University of Glasgow

📅 2014 – 2014 📍 Glasgow, UK

- Used confocal microscopy imaging and annotation
- confirmed previous findings about localization of glycinergic neurons to specific subtype of dorsal horn neurons

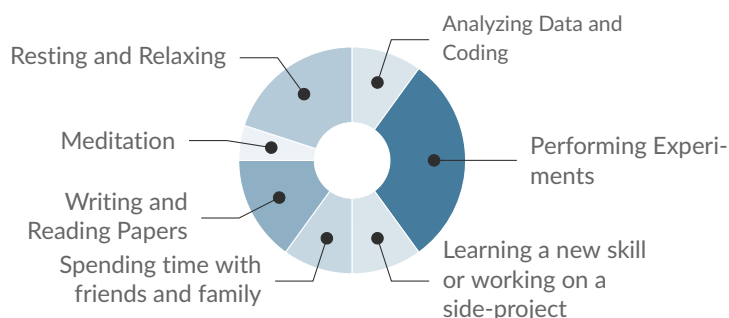
Research Internship

Inselspital, Universitätsspital Bern

📅 2013 – 2013 📍 Bern, Switzerland

- Extracted genomic DNA from patient blood samples
- checked for single nucleotide polymorphisms within a lipoprotein gene

A DAY OF MY LIFE



CV SUMMARY

I love learning new things and rising to challenges. I excel in what I do because I bring passion with me. If you give me an interesting project I will give you interesting results.

ACHIEVEMENTS

🎓 **First Class Honours & Distinction**
Received nearly Perfect grades during my Undergraduate and Master's

🔗 **Self-Taught**
I taught myself how to write code in Python, R and others

🏆 **Dean's Honour list**
Recognized for outstanding Academic Performance

STRENGTHS

Passionate Curious Dedicated

Molecular Biology & Neuroscience

Custom Solutions Microfluidics

LANGUAGES

🗣️ English : Fluent
🗣️ German : Fluent

EDUCATION

Ph.D. in Molecular Biology

University of Edinburgh

📅 September 2019 – August 2023

M.Sci. in Neuroscience

Universität Zürich

📅 September 2014 – February 2016

B.Sci. in Neuroscience

University of Glasgow

📅 September 2010 – August 2014

PUBLICATIONS

Journal Articles

- Zurbruegg, Mark, Man Ying Chan, and Per Svenningsson (2019). "GBA RNAi but not catalytic inhibition of glucocerebrosidase with Conduritol- β -epoxide increases levels of total α -synuclein in SH-SY5Y cells". In: *Neuroscience Letters*. ISSN: 18727972. DOI: 10.1016/j.neulet.2019.05.027.

Conference Presentations

- Zurbruegg, M (2020). *Is Trehalose Synthesis Determined by the Growth Rate in Escherichia coli?* Paper presented at Microbial Stress, Rome, Italy.
- Zurbruegg, Mark (2017). *Is modulation of glucocerebrosidase a viable new strategy for treating Parkinson's Disease?* Paper presented at Karolinska Neuroscience Conference, Trysil, Norway.

REFEREES

Prof. Per Svenningsson

@ Karolinska Institute

✉ BioClinicum J5:20,
Akademiska stråket 1, 17164 Solna

Prof. Teuta Pilizota

@ University of Edinburgh

✉ Roger Land Building,
King's Buildings, Edinburgh EH9 3JQ