Felix **Teufel**

MSc Biotechnology · ETH Zürich

4056 Basel, Switzerland

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Education

ETH Zürich — *Basel, Switzerland*

M.Sc. Biotechnology — *Sep. 2018 - Jun 2021*

- **GPA:** 5.6/6
- **Lab Assistant** in the Bioprocess Laboratory (Prof. Sven Panke)

University of Natural Resources and Life Sciences (BOKU) Vienna — *Vienna, Austria*

B.Sc. Food Science and Biotechnology — *Oct. 2015 - May 2018*

- **GPA:** 1.6/5 (1 = best), graduated with distinction
- **Teaching Assistant** for Biochemistry
- **Virginia Tech**, Blacksburg, VA, USA - competition for student-founded startups *(Summer 2018)*

Work Experience

F. Hoffmann - La Roche AG — *Basel, Switzerland*

Intern in Pharma Technical Operations — *Aug. 2019 - Jun. 2020*

- Natural Language Processing projects for biopharmaceutical manufacturing data
- Developed productivity tools for Google Suite with Google Apps Script

11er Nahrungsmittel GmbH — *Frastanz, Austria*

Summer intern in Research and Development — *Jun. 2015 - Sep. 2017*

- Developed chemometric models (PLS regression) for Near Infrared Spectrometry analytics of foods

Research Experience

Projects

Predicting stem cell states from single cell transcriptomics data — *Stanford, CA, USA (remote)*

Newman Lab, Department of Biomedical Data Science, Stanford University — *Mar. 2021 - ongoing*

- Developed SignalP 6.0, a new state-of-the-art prediction tool built on pretrained protein language models
- Manuscript and prediction package in preparation

Protein Language Modeling for Signal Peptide Prediction — *Kongens Lyngby, Denmark*

Bioinformatics Section, DTU Health Tech — *Jun. 2020 - Mar. 2021*

- Developed SignalP 6.0, a new state-of-the-art prediction tool built on pretrained protein language models
- Manuscript and prediction package in preparation

Multi-task Gaussian Process Adapters for irregularly-sampled time series classification — *Basel, Switzerland*

Machine Learning & Computational Biology Lab, ETH Zürich — *Oct. 2019 - May 2020*

- Investigated model biases and training strategies of a multi-task Gaussian Process - Temporal Convolutional Neural Network model for sepsis prediction in intensive care

Electrobiochemical Acrylamide Biosensors — *Vienna, Austria*

Ludwig Lab, BOKU Vienna — *Jun. 2018 - Aug. 2018*

- Investigated the reproducibility of previously published biosensor designs for acrylamide detection
- Developed a GUI for biosensor readout

Publications

Impact of pulsed electric field (PEF) pretreatment on process performance of industrial French fries production — *Vienna, Austria*

Journal of Food Engineering Volume 235, October 2018, Pages 16-22 — *2017*

T. Fauster, D. Schlossnikl, F. Rath, R. Ostermeier, F. Teufel, S. Toepfl, H. Jaeger

Reviews

2020 **ICLR 2021,** International Conference on Learning Representations *Assisted Review*
2020 **AAAI 2021,** Association for the Advancement of Artificial Intelligence *Assisted Review*

Honors & Awards

Competitions

2020 **Highlight Project for Economic Impact,** VersusVirus Hackathon *Zürich, Switzerland*
2019 **First Place,** Zurich Case Competition 2019 *Zürich, Switzerland*
2018 **Finalist,** Virginia Tech Global Entrepreneur Challenge 2018 *Blacksburg, VA, USA*
2018 **Crowd Champion,** Entrepreneurship Avenue Pitch Competition *Vienna, Austria*

Scholarships

2015-2018 **Merit-based Scholarship,** BOKU Vienna *Vienna, Austria*

Extracurricular Activities

Biotechnology Students Association of ETH Zürich *Basel, Switzerland*

Vice President *Feb. 2019 - Sep. 2020*

- Responsible for industry relations
- Student delegate in the appointment committee for new professorships
- Representative in department commissions

Graduate Consulting Club of ETH Zürich *Zürich, Switzerland*

Team Leader *Mar. 2019 - ongoing*

- Currently leading a team of 5 student consultants on a product launch project
- Consulted a computer vision / OCR startup on their market entry strategy in Switzerland

Skills

Languages	German/Swiss German (Native), English (C2), Spanish (B2), French (B1)
Programming Languages	Python, R, SQL, Google Apps Script
Tools	Linux, Google Cloud Platform, Git, Github
Analytical Techniques	Near Infrared Spectrometry, HPLC, RNA-seq DGE, Differential Scanning Calorimetry, Voltammetry
Wet Lab	Microbiology, Cell culture, Molecular cloning, Protein expression and purification (lab scale and pilot scale)