

fteufel | felixteufel | Updated April 2025

### **Experience**

Lila Sciences Cambridge, MA, USA

Scientist I, Machine Learning

Mar. 2024 - ongoing

Novo Nordisk A/S

Måløv, Denmark

INDUSTRIAL PHD STUDENT

Feb. 2022 - Feb. 2025

• ML for peptide discovery. Machine Intelligence, AI & Digital Research

Harvard Medical School

Boston, MA, USA

VISITING RESEARCHER IN THE DEBORA MARKS LAB

Aug. 2024 - Nov. 2024

• Sequence modeling for variant effect prediction

Stanford University Stanford, CA, USA - remote (COVID)

RESEARCH INTERN IN THE AARON NEWMAN LAB

Mar. 2021 - Feb. 2022

• Developing models to predict stem cell states reliably in multiple tissues

F. Hoffmann - La Roche AG

Basel, Switzerland

INTERN IN PHARMA TECHNICAL OPERATIONS

Aug. 2019 - Jun. 2020

• Natural Language Processing of biopharmaceutical manufacturing data

• Developed productivity tools for Google Workspace (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 (NIR) analytics

**Education** 

University of Copenhagen Copenhagen, Denmark

Ph.D. Machine Learning Feb. 2022 - Feb. 2025

· Advisor: Ole Winther

ETH Zürich Basel, Switzerland

M.Sc. BIOTECHNOLOGY Sep. 2018 - Jun 2021

- GPA: 5.76/6 — Graduated with distinction

- Lab Assistant in the Bioprocess Laboratory (Sven Panke group)
- Technical University of Denmark, Kongens Lyngby, Denmark exchange semester for thesis research

BOKU University Vienna Vienna, Austria

B.Sc. Food Science and Biotechnology

Oct. 2015 - May 2018

CDA: 1 C/F /1 = book\ Conducted with distinction

- GPA: 1.6/5 (1 = best) Graduated with distinction
- Teaching Assistant for Biochemistry
- Virginia Tech, Blacksburg, VA, USA represented Austria in a competition for student-founded startups (2018)

Research.

SELECTED PUBLICATIONS (FULL LIST ON GOOGLE SCHOLAR)

#### **Batched Energy-Entropy acquisition for Bayesian Optimization**

NEURIPS 2024 2024

<u>F. Teufel</u>, C. Stahlhut, J. Ferkinghoff-Borg

# DeepLoc 2.1: multi-label membrane protein type prediction using protein language models

NUCLEIC ACIDS RESEARCH 2024

M. Ødum, <u>F. Teufel</u>, V. Thumuluri, J.J.A. Armenteros, A.R. Johansen, O. Winther, H. Nielsen

ICLR 2024		2024
F. I. Marin	<sup>*</sup> , <u>F. Teufel</u> <sup>*</sup> , M. Horlacher, D. Madsen, D. Pultz, O. Winther, W. Boomsma	
Secreto	Gen: towards prediction of signal peptides for efficient protein secretion	
GENBIO @	NEURIPS 2023	2023
<u>F. Teufel</u> ,	J. C. Refsgaard, C. Stahlhut, H. Nielsen, O. Winther, D. Madsen	
DeepPep	tide predicts peptide cleavage using conditional random fields	
BIOINFORI	MATICS	2023
<u>F. Teufel</u> ,	J. C. Refsgaard, C.T. Madsen, C. Stahlhut, M. Grønborg, O. Winther, D. Madsen	
Deorpha	nizing Peptides Using Structure Prediction	
JOURNAL	OF CHEMICAL INFORMATION AND MODELING / MLSB @ NEURIPS 2022	2023
<u>F. Teufel</u> , .	J. C. Refsgaard, M. A. Kasimova, K. Deibler, C.T. Madsen, C. Stahlhut, M. Grønborg, O. Winther, D. M	ladsen
Combini	ng mass spectrometry and machine learning to discover bioactive peptides	
NATURE C	DMMUNICATIONS	2022
C.T. Madse	en, J. C. Refsgaard, <u>F. Teufel</u> et al.	
SignalP	6.0 predicts all five types of signal peptides using protein language models	
NATURE B	OTECHNOLOGY	2022
<u>F. Teufel</u> ,	J.J. A. Armenteros, A. R. Johansen, M. H. Gíslason, S. I. Pihl, K. D. Tsirigos, O. Winther, S. Brunak, G	. v. Heijne, H. Nielsen
Talks	& Awards	
TALKS		
2024	Digital Health Center, Berlin Institute of Health at Charité	Online
2024	Benchmarking DNA language models on biologically meaningful tasks	Online
2023	BC2 Basel Computational Biology Conference	Basel, Switzerland
2025	DeepTMHMM predicts alpha and beta transmembrane proteins using deep neural networks	Busci, Switzeriana
2023	Inter-Academy Workshop on Membrane Protein Structure and Folding	Stockholm, Sweden
2023	DeepTMHMM predicts alpha and beta transmembrane proteins using deep neural networks	Stockholm, Sweden
2021	Novozymes A/S	Copenhagen, Denmark
	Predicting signal peptides using protein LMs	oopennagen, zenman
SCHOLA	RSHIPS	
2015-18	Merit-based Scholarship, BOKU Vienna	Vienna, Austria
Extra	curricular Activities	
	Postdoc Fellowship Committee of Novo Nordisk	Copenhagen, Denmark
COMMITTE		Nov. 2022 - Feb. 2022
· ·	we workshops and events for $\sim$ 80 PhD students and postdocs in the organization	
	e Consulting Club of ETH Zürich	Zürich, Switzerland
TEAM LEAD		Mar. 2019 - May 2021
	ram of 5 student consultants on a market positioning project red a computer vision / OCR startup on their market entry strategy in Switzerland	
Biotechr	ology Students Association of ETH Zürich	Basel, Switzerland
VICE PRES	IDENT	Feb. 2019 - Sep. 2020
• Studen	sible for industry relations t delegate in the appointment committee for new professorships entative in department commissions	
Teach	ning	
	upervision & co-supervision	University of Copenhagen & DTU
	eses and 6 projects	2021 - 2025
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BEND: Benchmarking DNA language models on biologically meaningful tasks

DTU

2023

M.Sc. course, supervised project work of 17 students

**Deep Learning** 

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## Reviewing \_\_\_\_\_

2025	ICML, International Conference on Machine Learning
2025	ACS Synthetic Biology
2025	Journal of Agricultural and Food Chemistry
2024	Nature Communications
2023-24	NeurIPS Datasets & Benchmarks, Neural Information Processing Systems
2024	Computational and Structural Biotechnology Journal
2023	Journal of Chemical Information and Modeling
2023-24	Machine Learning in Structural Biology Workshop at NeurIPS
2023	<b>NeurIPS</b> , Neural Information Processing Systems
2023-24	Nature Biotechnology
2023	Proteomics
2022	Bioinformatics
2022	ICLR, International Conference on Learning Representations
2022	PeerJ
2022-24	Scientific Reports

## Skills\_

**Languages** German/Swiss German (Native), English (C2), Spanish (B2), French (B1)

**Programming Languages** PyTorch, Python, R, SQL, Google Apps Script

**Tools** Linux, Google Cloud Platform, Git, Github