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Sindshvilevej 19, 1
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Computer skills

R

Python

UNIX

LaTeX

Git

Snakemake

Communication skills

Danish Mother tongue

English Fluent

Profile

I am interested in analyzing large datasets using standard statistical methods as well as machine learning algorithms. My goal is to master bioinformatic tools to tackle a variety of biological problems.

Johanne Badsberg Overgaard

Bioinformatician

Dedicated and structured bioinformatician with a passion for data analysis and communication of scientific research. Curious, ambitious, and always open for learning and improving.

Education

Bioinformatics and Systems Biology (MSc) | DTU

Jan. 2023 - Jun. 2025 (expected)

- Trained a machine learning model for the prediction of epitope groups based on the output from the state-of-the-art ESM-2 Protein Language Model.
- Implemented a neural network for the prediction of the internal energy of small molecules represented as graphs.
- Performed and interpreted state-of-the-art bioinformatic analysis to single cell data using R in the course *Applied Single Cell Bioinformatics*.
- Formulated research questions and planned the workflow for multiple group projects.

Quantitative Biology and Disease Modelling (BSc) | DTU

Sep. 2019 - Dec. 2022

- Handled data preparation, visualization, and modeling in the course *Introduction to Machine Learning*.
- Explored differences in the relative abundances of genes between conditions using self-invented algorithm in final bachelor thesis.

Experience

Student Assistant | Environmental Microbiology, AU

Oct. 2024

- Responsible for the taxonomic and mRNA analysis of meta-transcriptomic data from Greenland study.
- Implemented new exploratory data analysis methods in existing templates to explore differences in the composition of microorganisms.
- Automated fasta file editing procedures.

Student Assistant | DTU Library, DTU

Aug. 2020 – Sep. 2024

- Gave presentations for larger international groups, and trained new employees.