ANDREAS SANDNES

Combining software development with bioinformatics to facilitate data analysis pipelines in biological research.

PROFESSIONAL EXPERIENCE

Bioinformatician Intern at the National Center for Cancer Immune Therapy
03/2025 - PRESENT

Aiding researchers by running bioinformatics algorithms in an HPC infrastructure and developing data analysis software.

- HLA Typing using the HLA*LA algorithm.
  - Web-app dev. simplifying output handling and QC.
- scRNAseq analysis using Seurat in R.
- nf-core pipelines, Nextflow
- Computerome

Amgen Research Copenhagen
02/2020 - 06/2024

Student Group 2020-2022 & **Computational Science Group** 2022-2024

Developed interactive dashboard applications using Python:

- Structured overview of projects tracking small molecules.
- Data analysis facilitation of the experimental pipeline.
  - Batch effect analysis ∘ DNA sequencing cost efficiency
- Dynamic 2D structure display panel of medicine candidates.

I succeeded in this role by:

- Upholding excellent communication with diverse stakeholders to gather requirements.
- Extracting data from multiple databases using SQL.
- Building data processing pipelines.
- Documenting software development projects from idea to deployment.

Conducted collaborative projects (including MSc thesis):

- Successfully applied differential gene expression statistical tools to investigate ways to partition false positive molecules from potential medicine candidates in DNA-encoded libraries.
- Tested statistical distribution similarities of diverse datasets.

These projects significantly enhanced my:

- Critical thinking, data analysis, and reporting.
- Statistics and statistical programming.
- Planning and time management respecting deadlines.

Other experiences include bricklaying, gardening, and lab maintenance.

LANGUAGES

- Norwegian (Native)   • English (Fluent)   • Danish (Fluent)

INTERESTS

- Mountain hiking   • Trading   • River fishing

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🌐 LinkedIn   🌐 Portfolio

EDUCATION

🎓 **UNIVERSITY OF COPENHAGEN**
MSc Bioinformatics (2021-2024)
BSc Biochemistry (2016-2020)

SKILLS

- Data analysis and visualization
- Python
  - Dash Plotly, RDKit, Oracle
- R
  - DESeq2, ggplot2, Seurat
- Bash scripting
- HPC (Computerome)
- SQL
- Git Version Control
- AI Prompt Engineering
- Software Development

PERSONAL TRAITS

- Curious
- Autonomous
- Fast learner
- Highly adaptable
- Creative problem solver

REFERENCES

References can be given on demand and testimonials can be consulted **here**.