

# ANDREAS SANDNES

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## PROFESSIONAL SUMMARY

A highly adaptable and solutions-driven Bioinformatics Software Engineer dedicated to accelerating scientific discovery by building and automating robust data pipelines and interactive tools that eliminate processing bottlenecks for biological researchers.

## TECHNICAL SKILLS

**Languages & Scripting:** Python, R, Bash, HTML, CSS

**Bioinformatics & Analysis:** scRNA-seq (BCL-Convert, Cellranger, Seurat), HLA Typing (HLA-LA), Differential Gene Expression (Deseq2, edgeR, Limma), TCR&BCR repertoire (Trust4)

**Software & Data Engineering:** Dash-Plotly, SQL (Oracle, Postgres), Request, Unittest, RDKit, Flask, Git

**Infrastructure & Cloud:** High-Performance Computing (Computerome)

## PROFESSIONAL EXPERIENCE

**Bioinformatician** for the National Center for Cancer Immune Therapy (CCIT) 03/25 - 08/25

- Developed and deployed a Python-based web application (Dash-Plotly) to automate a custom HLA typing output handler, integrating quality control and streamlining data delivery for immunology research.
- Automated BCL-to-FASTQ conversion workflows in a high-performance computing environment (Computerome), eliminating processing bottlenecks and accelerating data availability for research teams.
- Analyzed single-cell RNA-seq data using Seurat to process and interpret complex immunology datasets, directly supporting ongoing cancer immune therapy research.

## KEY PROJECTS

**MSc Thesis:** A collaboration with my previous employer Amgen Research Copenhagen

- Successfully applied statistical tools to partition false positive molecules from potential medicine candidates in samples from DNA-encoded library selections.
- Compared statistical distributions of diverse datasets to test for method compatibility.

**Dashboard development:** Student assistant for Computational Science Group at Amgen.

- Engineered and maintained interactive dashboards using Python to provide a structured overview of small molecule projects, and monitored spending of sequencing resources, improving project tracking and decision-making.

## EDUCATION

**The University of Copenhagen  
(UCPH)**

• MSc in Bioinformatics  
09/21-06/24

• BSc in Biochemistry  
09/16-02/20

## LANGUAGES

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