

Alex Groot

STUDENT LIFE SCIENCES

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About Me

Student HBO life sciences at Hogeschool Utrecht majoring in molecular biology, transitioning into the field of data science. Having experience in R programming and data science, I am eager to use my analytical skills and programming on biological data to gain data-driven insights into processes. I also enjoy working on projects that assist in facilitating the process of analytics and research.

Skills

- R (programming language)
- R Quarto
- R Shiny
- Data visualization (ggplot2/plotly)
- Git
- Bash
- Linux
- Microsoft Excel

Projects

Project Nanopore

PROCESSING AND ANALYZING MINION RNA-SEQUENCING DATA

- FastQC
- minimap2
- Bambu
- DESeq
- IGV browser

Getting started with machine learning

PERSONAL PROJECT USING BREAST CANCER DATASET

- Machine learning using R Tidymodels

Project genes and proteins

TRANSFECTING EUKARYOTE CELLS WITH RECOMBINANT PLASMIDS

- SDS-PAGE
- Western-blot

Project sphingolipids

CELL CULTURE AND EXPERIMENTATION

- Working with multiple cell lines (SKNAS, HEK293T, HEPG2)
- Setting up and performing assays (MTT, Amplex Red)
- Thin Layer Chromatography (TLC)