

JESKO WAGNER

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OBJECTIVE

PhD Student with 3+ years of experience in machine-learning, high-dimensional statistics, and drug discovery. Excited about improving analysis of high-content drug discovery data.

EDUCATION

PhD in Bioimage Analysis, University of Edinburgh, UK 2021 - ongoing
Leading microRNA and glioblastoma drug discovery projects, applying novel approaches to multiparametric high-content screening data. Relevant coursework: methods for causal inference, high-dimensional probability.

Master of Science in Molecular Biology and Bioinformatics, Utrecht University, NL 2019 - 2021
Awarded place in competitive honours programme. Graduated *cum laude* (US: A+).

Bachelor of Science in Molecular Biology, Maastricht University, NL 2015 - 2018
Graduated *cum laude* (US: A).

EXPERIENCE

PhD Research, University of Edinburgh, UK 2021 - ongoing

- Developing machine learning and statistics frameworks.
- Performing drug discovery in multi-disciplinary collaboration.
- Applying novel data analysis solutions to high-content imaging at single-cell level.
- Spoke at CytoData 2023 on *Unlocking Single-Cell Morphological Profiling*
- Presented poster at the Society of Biomolecular Imaging and Informatics 2022 conference titled *Morphological Drug Profiling at Single-cell Resolution*

Course Coordinator Applied Data Science, University of Edinburgh, UK Mar 2023 - ongoing

- Founded and leading workshop on machine-learning in Biology

Teaching Assistant, University of Edinburgh, UK Sep 2022 - ongoing
Teaching R, statistics, and conda to medical and bioinformatics students in groups of 15 - 40.

Master Thesis, University Hospital Utrecht, NL Dec 2019 - Dec 2020

- Innovated novel multiple-instance machine learning model.
- Improved cancer diagnostics by predicting impact of structural variants.

INDEPENDENT PROJECTS

Housing Search Tool. Built a Python-based GUI to quickly aggregate and filter housing information from Rightmove. ([See it here](#))

Open Source Contributions. Submitted improvements to popular open source tools conda and snakemake.

SKILLS

Technical Skills	Machine learning, high-dimensional statistics, high-throughput analysis
Programming languages	Python, R, shell, Nextflow, Snakemake

LEADERSHIP

- President of academic study association during BSc. studies. Organised academic excursions, lecture series, and academic events for 300+ students.
- Initiated and successfully led group projects during BSc. studies. Conceived research question and led research.