JESKO WAGNER

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OBJECTIVE

PhD Student with 2+ years of experience in machine-learning, high-dimensional statistics, and drug discovery, seeking position to apply advanced computational tools in drug discovery projects in industry.

EDUCATION

PhD in Morphological Drug Discovery, University of Edinburgh, UK 2021 - ongoing
Leading glioblastoma drug discovery project applying novel approaches to multiparametric high-content screening data. Relevant coursework: Methods for Causal Inference, Targeted Causal Learning, Biomedical AI lecture series.

Master of Science in Molecular Biology and Bioinformatics, Utrecht University, NL 2019 - 2021
Awarded place in competitive honours programme. Graduated *cum laude* (UK: 1st, DE: 1.3).

Bachelor of Science in Molecular Biology, Maastricht University, NL 2015 - 2018
Graduated *cum laude* (UK: 1st, DE: 1.3).

EXPERIENCE

PhD Research, University of Edinburgh 2021 - ongoing

- Developing machine learning and statistics frameworks.
- Performing drug discovery in multi-disciplinary collaboration.
- Applying novel data analysis solution to high-content imaging at single-cell level.
- Revealed previously missed drug class to treat glioblastoma.
- Presented poster at the Society of Biomolecular Imaging and Informatics conference titled *Morphological Drug Profiling at Single-cell Resolution*

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

Master Thesis, University Hospital Utrecht Dec 2019 - Dec 2020

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

Master Research, European Molecular Biology Laboratory (EMBL) Jan 2021 - Jun 2021

- Created high-throughput Python and snakemake pipeline for complex structural variant analysis.

INDEPENDENT PROJECTS

Housing Search Tool. Built a Python-based GUI to quickly aggregate and filter housing information from Rightmove. (Try 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. 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.