Max Van Puyvelde

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EDUCATION

Master of Science in Bioinformatics | Ghent University   **2022 - Present**
- Minor in Computer Science.
- Statistical Genomics, Bioinformatics Algorithms, Machine Learning, UNIX, Drug Design, Modelling, ...
- Additional Mathematics credits.

Bachelor of Science in Biomedical Sciences | Ghent University
- **Thesis**: The development of cerebral organoids from stem cells using bioreactors.   **2019 - 2023**
- Physiology, Genetics, Proteomics, Immunology, Microbiology, Epidemiology, Cell Biology, ...

WORK EXPERIENCE

Visiting Researcher | Stanford University   **Jan. 2025 - Present**
- Research on foundational models and deep learning for 2D and 3D medical image analysis and segmentation.

Machine Learning Research Scientist | Stealth Startup   **Jul. 2024 - Jan. 2025**
- Architected production computer vision pipelines utilizing CNNs, Vision Transformers, and segmentation models for high-throughput image classification.
- Developed end-to-end ML infrastructure including data pipelines, model training, and deployment systems for multiple deep learning architectures.
- Conducted statistical analysis on data streams to extract complementary insights.

Bioinformatics Scientist Intern | Galapagos   **Jul. 2024 - Aug. 2024**
- Created a new method and pipeline that captured novel molecular subtypes within a specific cancer type, leveraging pathway-based transcriptome data analysis.
- Collaborated with R&D to integrate the pipeline into ongoing drug discovery programs.
- Presented and discussed the novel findings with oncology specialists and senior management.

Bioinformatics Software Engineering Intern | BioLizard   **Jul. 2023 - Sept. 2023**
- Developed a toolset for neoantigen prediction using ML models with integrated database.
- Features a user-friendly GUI and a versatile CLI for both lab professionals and researchers.
- Presented research findings and software capabilities to internal and external stakeholders.

Quality Control Analyst Intern | Friesland Campina   **Jul. 2020 - Sept. 2020**
- Physicochemical and microbiological analyses on dairy samples.
- Collaborated with the quality control team to maintain high standards of product quality.

EXTRACURRICULAR ACTIVITIES

Data Consultant | Everest Analytics   **Jan. 2024 - Jun. 2024**
- Developed a BI dashboard for Red Cross Flanders to enhance their campaign strategies.
- Analyzed volunteer data to provide insights into demographics and engagement patterns.

Representative Roles | Ghent University   **2022 - Present**
- IT Committee: Oversaw security initiatives, HPC operations, and BYOD policies.
- Bioinformatics Program: Managed student applications and curriculum development.

Finalist at Open Sea Lab Hackathon | EMODnet   **2023**
- Developed a windfarm placement analysis tool with proprietary data for the European Commission.

SKILLS

- **Programming & ML:** Python, R, PyTorch, TensorFlow, Bash, SQL, HTML/CSS, MATLAB
- **Tools & Cloud:** Git, OpenCV, Docker, Google Cloud, Power BI
- **Languages:** Dutch (Native), English (Full Professional), French (Elementary)