

# Max Van Puyvelde

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## EDUCATION

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**Master of Science in Bioinformatics** | Ghent University 2022 - Present  
• Minor in Computer Science, Additional Mathematics coursework

**Bachelor of Science in Biomedical Sciences** | Ghent University 2019 - 2023  
• **Thesis:** The development of cerebral organoids from stem cells using bioreactors.

## WORK EXPERIENCE

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**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 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.

**Software Engineer 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.

**Microbiology 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

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**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

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- **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)