

# 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.
- Statistical Genomics, Bioinformatics Algorithms, Machine Learning, UNIX, Drug Design, Modelling, ...
- Additional credits through a linking course.

### Bachelor of Science in Biomedical Sciences | Ghent University 2019 - 2022

- **Thesis:** The development of cerebral organoids from stem cells using bioreactors.
- Physiology, Genetics, Proteomics, Immunology, Microbiology, Epidemiology, Cell Biology, ...

## WORK EXPERIENCE

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### Data Science & Bioinformatics Consultant | Freelance Jul. 2024 - Present

- Developed advanced machine learning models for an animal-welfare start-up.
- Conducted data analysis, providing actionable insights to enhance client decision-making.

### 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 bioinformatics 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

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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 audience demographics and engagement patterns.

### Representative of the IT Committee | Ghent University 2022 - 2024

- Oversaw security measures, system operations like HPC and supervised BYOD policies.

### Representative of the Bioinformatics Study Program | Ghent University 2022 - 2024

- Managed student applications, QA, and program modifications within the study curriculum.

### Finalist at Open Sea Lab Hackathon | EMODnet 2023

- Developed a windfarm placement analysis tool with proprietary datasets.

## SKILLS

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- **Programming Languages:** Python, R, Bash, SQL, HTML/CSS, MATLAB
- **Developer Tools:** Git, Docker, Google Cloud, Power BI
- **Lab Skills:** PCR, Western-Blotting, SDS-Page, ELISA, Mass Spectrometry, Gas Chromatography
- **Languages:** Dutch (Native), English (Full Professional), French (Elementary)