Alita D'hoore

MSc in Bioinformatics

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👤 Female   in Alita D'hoore   ⬤ AlitaDhoore

🪪 PROFILE

I am a motivated and adaptable person eager to embrace new experiences and expand my skill set. With a strong ability to work independently and a passion for collaboration, I both thrive alone as well as in team environments. I approach challenges with a problem-solving mindset, consistently seeking the most efficient and effective solutions. My enthusiasm for learning and openness to new perspectives make me an asset in any dynamic setting.

🎓 EDUCATION

09/2014 – 06/2020
Westmalle, Belgium

High School Diploma
Sint-Jan Berchmanscollege
Mathematics - Ancient Greek

10/2020–06/2023
Antwerp, Belgium

Bachelor of Science
University of Antwerp
Bioscience Engineering
Specialized in Cell and Gene Biotechnology
Graduated cum laude
Thesis subject: Exploring the potential of living therapeutics through targeted genetic engineering
In this project, we examined the role of Lactobacillus jensenii within the vaginal microbiome, as it is believed to have health-promoting effects. To investigate this, we generated a knockout mutant of the gene suspected to be fundamental to this beneficial function.

10/2023 – present
Leuven, Belgium

Master of Science
KU Leuven
Bioinformatics
Graduated cum laude
Thesis subject: Novel method for annotating plausible gene targets to GWAS loci
In this project, we aim to develop, implement, and test a novel approach to annotate plausible candidate genes to GWAS loci. Using an expectation maximization (EM) algorithm based on gene ontology (GO) terms, the most likely gene at each locus is iterately updated based on the GO enrichments amongst the genes from the previous iteration. Furthermore, the search space may be constraint to genes in topologically associated domains (TADs). Currently, I developed the method in Python, and I validated the method using state-of-the-art techniques like eQTL mapping.

🌐 LANGUAGES

English
C2   ⬤ ⬤ ⬤ ⬤ ⬤

Dutch
C2   ⬤ ⬤ ⬤ ⬤ ⬤

French
B1   ⬤ ⬤ ⬤ ○ ○

🧠 SKILLS

Programming Languages
Python / Java / R / Matlab / Linux (Bash) / SQL

ODE/PDE modelling and simulation
Matlab / Simulink / Ansys

Laboratory experience
PCR / plasmid purification / cloning / agarose and polyacrylamide gel electrophoresis / restriction digestions /
Sanger DNA sequencing / analytical chemistry

💼 PROFESSIONAL EXPERIENCE

03/2019 – 06/2024
Hoogstraten, Belgium

Kruidvat
Jobstudent

10/2024 – present,
Antwerp, Belgium

Belgian wines
Jobstudent

10/2024 – 12/2024,
Leuven, Belgium

Integrated Bioinformatics Project, KU Leuven
FLAMS 3D: an interactive web resource for PTM data with 3D context
In a team of 4, we expanded the existing FLAMS web tool, integrating references to other databases (e.g. dbPTM) and visualizing protein structure data. We also expanded the biological interpretability of FLAMS, by allowing user to visualize multiple PTMs on the same protein structure. In addition, we also integrated a usage tracker into FLAMS, in a GDPR conform manner.