

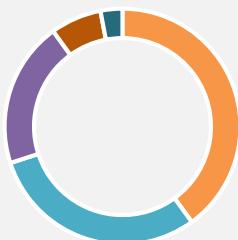
Bianca De Saedeleer

Bioscience Engineer
in Bioinformatics

*"Looking
forward to
contribute to
challenging
projects"*

SKILLS

Machine learning
Data analysis
Biotechnology
Team work and coordination



- Python ■ R
- MATLAB ■ (My)SQL
- Linux

LANGUAGES

Dutch > Native
English > Advanced
French > Intermediate
German > Elementary

French course (B2)
– UCT UGent (2020)

English summer school (B2)
– EF (United Kingdom, 2013)

FREE TIME

Kickboxing
Rowing
Running > 10 miles
> Spartacus run

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📍 Koekoekstraat 23, 9940 Ertvelde, Belgium
– relocating to Luxembourg in September 2020
📅 03/05/1996, Aalst, Belgium
🚗 B, own car



Young potential with a strong interest in machine learning, deep learning, data analysis, Big Data and statistics. Preferably combined with life sciences, biotechnology and innovation. Eager to develop my skills further in a challenging and inspiring environment.

EDUCATION

Master of Science in Bioinformatics – Bioscience Engineering,
Ghent, Ghent University (UGent) – **Magna cum laude**

Sep 2018 –
July 2020

- > Dissertation: "Combatting illegal timber trade: the power of mathematics and mass spectrometry"
Comparison of flat and hierarchical classification of DART TOFMS spectra from heartwood using RFs and 1D CNNs in Python (Keras, PyTorch, Scikit).
- > Design Project: "Statistics for Proteomics: the possible pitfalls when analyzing spliced peptides"
Fictional response to article published in Nature, analyses in R, MaxQuant and MS-GF+ (group project).

> Analysis of High Dimensional Data
Exploratory and statistical analyses in R on differentially expressed genes between two groups of patients (group project).

> Applied High-Throughput Analysis
Individual project on differentially methylated CpGs (micro-array data) and ncRNAs (RNA-seq data) in Alzheimer's Disease (topic of own choice). Exploration, statistical analysis, quality control and gene set analysis in R and by use of a server.

> Biological Databases
Individual project, build MySQL database and discover traits on fictional chromosome 5.

> Predictive Modelling
Machine learning course in Python, evaluation based on:

- Micro-teaching on Gaussian Processes (group)
- Two Kaggle competitions with oral defense (individually)
- Critical review paper with oral defense (individually)

> Statistical Genomics
Group project in R, confidential. Extended Wald test on RNA-seq data.

Bachelor of Science in Bioscience Engineering – Cell and Gene Biotechnology, Ghent, Ghent University

Sep 2014 –
Sep 2018

Latin - Mathematics, Sint-Amantsberg, Sint-Janscollege

Sep 2008 –
June 2014

WORK EXPERIENCE

Tutor, Het Bijlesbureau, Ghent Tutoring the basics of statistics (bachelor level) > Teaching, patience, rephrasing and explaining concepts	Feb 2019 – June 2019
Logistics Assistant (student job), Plastal, Desteldonk SAP, booking transports, annual costs in Excel, administration tasks > Routine work, precision, self-dependence	July 2018 – Aug 2018
Researcher (student job), Nuscience, Drongen R&D-project: design of new formulation for feed product, attending meetings, company visits, writing for ATOL-project, SWOT-analyses > Laboratory skills, meeting deadlines, problem-solving, perseverance, self-dependence	July 2017 – Aug 2017
Student jobs at AD Delhaize and Quick, Merelbeke and Oostakker > Stress management, customer service, team work, flexibility	July 2012 – Sep 2016

VOLUNTEERING

Vice President of Humasol vzw Ghent, Ghent Active member in Communications and HR during first seven months. Then, coordination of Humasol Ghent (10 members + 14 project students), close communication with Vice President of Humasol Leuven and President, final responsibility and organization of tasks and events, bi-weekly Skype meetings with Board of Directors (9 members) > Leadership, team work, organizational skills, decision-making, public speaking, networking, problem-solving	Sep 2019 – Aug 2020
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Referees

Prof. dr. Willem Waegeman – Supervisor dissertation – willem.waegeman@ugent.be

Dr. ir. Victor Deklerck – Tutor dissertation – victor.deklerck@ugent.be

Dr. ir. Geert Bruggeman – Employer Nuscience – geert.bruggeman@nusciencengroup.com