Bianca De Saedeleer
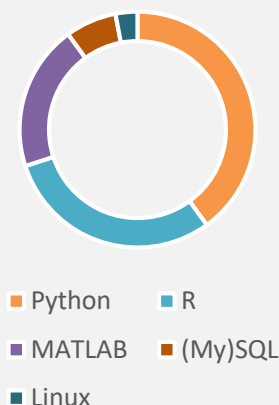
Bioscience Engineer in Bioinformatics

"Looking forward to contribute to challenging projects"

in linkedin.com/in/biancads
✉ biancadesaedeleer@hotmail.com
☎ +32 478 59 27 55
📍 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.

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

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"*
Group project in R, fictional response to article published in Nature.

> Analysis of High Dimensional Data
Group assignment in R, exploratory and statistical analyses on differentially expressed genes between two groups of patients.

> 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 provided by the professor.

> Predictive Modelling
Machine learning course in Python, evaluation based on:
- Micro-teaching on Gaussian Processes: 30 minutes teaching, 30 minutes practical session (group assignment)
- Two Kaggle competitions with oral defense (individually)
- Critical review paper from professor 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-Amandsberg, 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

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@nusciencegroup.com