

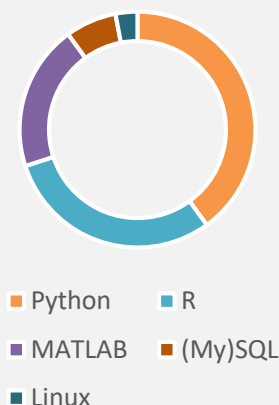
# Bianca De Saedeleer

Bioscience Engineer  
in Bioinformatics

*"Looking  
forward to  
contribute to  
challenging  
projects"*

## SKILLS

Machine learning  
Data analysis  
Biotechnology  
Team work and coordination



## 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

in [linkedin.com/in/biancads](https://www.linkedin.com/in/biancads)  
✉ [biancadesaedeleer@hotmail.com](mailto: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.*

## 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-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](mailto:willem.waegeman@ugent.be)

Dr. ir. Victor Deklerck – Tutor dissertation – [victor.deklerck@ugent.be](mailto:victor.deklerck@ugent.be)

Dr. ir. Geert Bruggeman – Employer Nuscience – [geert.bruggeman@nusciencigroup.com](mailto:geert.bruggeman@nusciencigroup.com)