Christophe Vanderaa

A data scientist specialized in biomedicine, driven by improving patient's life through statistics and programming

Language Skills

French ●●●●●
Dutch ●●●●◐
English ●●●●◐

Technical Skills

Software engineering

Machine learning and statistics

Reproducible analysis

Single-cell and omics data analysis

Programming Skills

R ●●●●●
Python ●●●○○
Matlab ●●●○○
HTML,CSS ●●●○○
Javascript ●●○○○

Soft Skills

Interdisciplinary communication

Challenge- and learning-driven

Team spirit and collaboration

Efficient time management

Autonomous remote working

Contact and links

✉ vanderaachristophe@hotmail.com

in linkedin.com/in/cvanderaa/

⌗ github.com/cvanderaa

Interests

═══ Experience ═══

2024 - today	**Postdoc researcher in Prof Lieven Clement's lab** *statOmics - Department of Statistics - Ugent - Ghent* Improving statistical approaches to unlock biomedical applications of mass spectrometry-based single-cell proteomics
2019 - 2023	**PhD student in Prof Laurent Gatto's lab** *CBIO - Institut de Duve - UClouvain - Brussels* Developed a computational framework for analyzing mass spectrometry based single-cell proteomics.
2017 - 2019	**Researcher & student in Prof Tom Wenseleer's lab** *LSSE - KULeuven - Leuve* Developed a computational pipeline for automated analysis of gas chromatography mass spectrometry data.
Mar - Aug 2016	**Intern in Dr Christophe Blanchetot's team** *argenx - Zwijnaard* Generated antibodies recognizing therapeutic antibodies for quality control and diagnostics.
2015 - 2016	**Intern & student in Prof Sophie Luca's lab** *GECE - Institut de Duve - UCLouvain - Brussels* Described the binding of a therapeutic antibody on the hGARP-hTGFb1 complex.

═══ Education ═══

2019 - 2023	**PhD degree in Bioinformatics** UClouvain - supervision under Prof. Laurent Gatto
2016 - 2018	**Master degree in Bioinformatics** KULeuven - Summa Cum Laude
2011 - 2016	**Master degree in Biomedical Sciences** UCLouvain - Grande Distinction

═══ Publication ═══

CPMB 2023	**Vanderaa and Gatto.** The Current State of Single-Cell Proteomics Data Analysis
Exp Rev Prot 2021	**Vanderaa and Gatto.** Replication of Single-Cell Proteomics Data Reveals Important Computational Challenges.
Science 2018	**Liénart, Merceron, Vanderaa, et al.** Structural basis of latent TGF-b1 presentation and activation by GARP on human regulatory T cells. 2018, Science.
🅶 14 more	

═══ Software ═══

R/Bioconductor	**QFeatures - Gatto and Vanderaa** Management and processing of quantitative features for high-throughput mass spectrometry assays.
R/Bioconductor	**scp - Gatto and Vanderaa** Utility functions for manipulating, processing, and analyzing mass spectrometry-based single-cell proteomics data.
R/Bioconductor	**scpdata - Gatto and Vanderaa** Dissemination of mass spectrometry-based single-cell proteomics datasets.