Milan MALFAIT

30 November 1994

+ 32 478 37 00 47
milan.malfait94@gmail.com
https://milanmlft.dev
LinkedIn   GitHub   ORCiD

EXPERIENCE

2019 - 2022   Research & Teaching assistant - Ghent University
Developing robust and scalable methods for analyzing single-cell 'omics data and implementing them as open-source software packages. Developing course material and assisting with the teaching of various courses in statistics:
- Introduction to Biostatistics
- High-Dimensional Data Analysis
- Practical Statistics in the Life Sciences

2018 - 2019   Bioinformatician - *Lab of Stem Cells and Cancer (ULB)*
Analysis of (single-cell) transcriptomics, micro-array, and epigenomics data: clustering, differential expression analysis, inference of gene regulatory networks, etc. Close collaboration with experimental biologists in the lab.

2015 - 2016   President at Wetenschappelijke Kring VUB (student organization)

2014 - 2015   Vice-President at Wetenschappelijke Kring VUB

2014 - 2015   Tutoring mathematics and chemistry
High school and first-year university level.

2012 - 2015   Sailing instructor at Sport Vlaanderen

EDUCATION

2017 - 2018   Master of Science in Bioinformatics and Modelling - ULB
Greatest Distinction (GPA: 89%)
Master thesis: *"Modelling Tumor Heterogeneity"*.
Implemented a new computational model to simulate intra-tumor heterogeneity in a Python OOP environment.
https://github.com/milanmlft/Master-Thesis

2012 - 2017   Master of Science in Bioengineering sciences - VUB
Great Distinction (GPA: 83%)
Medical Biotechnology, Master thesis in structural biology.

PUBLICATIONS

Aragona, M., Sifrim, A., **Malfait, M.** *et al.* "Mechanisms of stretch-mediated skin expansion at single-cell resolution". *Nature* 584, 268-273 (2020). https://doi.org/10.1038/s41586-020-2555-7

Dekoninck, S., Hannezo E., …, **Malfait, M.** *et al.* "Defining the Design Principles of Skin Epidermis Postnatal Growth". *Cell* 181, 604-620.e22 (2020). https://doi.org/10.1016/j.cell.2020.03.015

Centonze, A., Lin, S., …, **Malfait, M.** *et al.* "Heterotypic cell-cell communication regulates glandular stem cell multipotency". *Nature* 584, 608-613 (2020). https://doi.org/10.1038/s41586-020-2632-y

De Bruyn, P., Prolič-Kalinšek, M., …, **Malfait, M.** *et al.* "Nanobody-aided crystallization of the transcription regulator PaaR2 from *Escherichia coli* O157:H7. *Acta Crystallographica Section F: Structural Biology Communications* 77, 374-384 (2021).
https://doi.org/10.1107/s2053230x21009006