Curriculum Vitae

Bram De Jaegher

Bioscience engineer

keywords: mathematical modelling, process control, computational fluid dynamics, machine learning, optimisation, chemistry, problem solving

about

9000 Gent
Belgium

bram.de.jaegher@gmail.com
LinkedIn
Github

Driver's licence: B

languages

Dutch: native language
English: C2 (CEFR)
French: B1 (CEFR)

additional skills

Computational fluid dynamics
Mathematical modelling
Machine learning
Control theory
LaTeX

programming

Working knowledge
MATLAB/Simulink
Python 2/3
OpenFOAM (CFD)

Basic knowledge
HTML/CSS/JS
C++
R

education

2014–2016 **M.Sc. summa cum laude** — Ghent University
Bioscience engineering
Chemistry and bioprocess technology

2011-2014 **B.Sc. cum laude** — Ghent University
Bioscience engineering
Chemistry and food technology

2005-2011 **GCSE in Math and Sciences** — Royal Atheneum Knokke-Heist
4.2/5 GPA

experience

01/2017 - ... **PhD candidate** — Ghent University
Model-based optimisation of design and operation of bioreactors with a focus on gas-liquid mass transfer
BIOMATH

09-12/2016 **Research assistant** — Ghent University
Mathematical modelling of filtercake formation and fungal growth
BIOMATH/KERMIT

08-09/2014 **Research internship** — University of São Paulo
Computer vision techniques for polymer recognition using atomic-force microscopy images

scriptions

2016 **Master thesis** — Ghent University
Spatio temporal modelling of filtercake formation in filtration processes

2014 **Bachelor thesis** — Ghent University
Innovative applications of artificial intelligence in the food industry

additional courses

2017 **BIOPRO World Talent Campus** — Denmark
Intensive course on bioprocess monitoring and optimisation

2017 **Multi-scale methods for non-reacting and reacting flows** — Ghent University
Specialist course, doctoral schools

voluntary work

2009-2014 **Leader youth movement** — Knokke-Heist
102e FOS De Albatros

projects

2016 **Open Webslides** — Ghent University
Open-source platform for interactive presentation slides
UGent innoversity challenge winner

2016 **Dewpal: biocatalysed atmospheric condenstation** — MIT, Boston
iGem: International Genetically Engineered Machine Competition

Interactive version: bramdejaegher.be/CV.html