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

+...
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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** Bioscience engineering *Chemistry and bioprocess technology*	Ghent University
2011-2014	**B.Sc. cum laude** Bioscience engineering *Chemistry and food technology*	Ghent University
2005-2011	**GCSE in Math and Sciences** 4.2/5 GPA	Royal Atheneum Knokke-Heist

experience

01/2017 - ...	**PhD candidate** Model-based optimisation of design and operation of bioreactors with a focus on gas-liquid mass transfer *BIOMATH*	Ghent University
09-12/2016	**Research assistant** Mathematical modelling of filter cake formation and fungal growth *BIOMATH/KERMIT*	Ghent University
08-09/2014	**Research internship** Computer vision techniques for polymer recognition using atomic-force microscopy images	University of São Paulo

scriptions

2016	**Master thesis** Spatio temporal modelling of filter cake formation in filtration processes	Ghent University
2014	**Bachelor thesis** Innovative applications of artificial intelligence in the food industry	Ghent University

voluntary work

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

projects

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

2016   **COCOON: communication & co-creation online**   Ghent University
        Education innovation projects 2016