



Chaïm De Mulder

Experience

15/10/2015–
present **PhD Candidate**, *Ghent University, Faculty of Bioscience engineering, Department of Mathematical Modeling, Statistics and Bioinformatics, BIOMATH group (Model based bioprocess analysis and optimisation).*



Project Model-based decision support, knowledge build-up and advanced modeling for the Wastewater Treatment Plant of Eindhoven, The Netherlands, in close collaboration with the operators (Waterboard De Dommel).

15/10/2014–
15/10/2015 **Research Assistant**, *Ghent University, Faculty of Bioscience engineering, Department of Mathematical Modeling, Statistics and Bioinformatics, BIOMATH group (Model based bioprocess analysis and optimisation).*



Projects

- Coupling a hydrodynamic model (using CFD) and a biokinetic model (using established wastewater treatment models) for the Wastewater Treatment Plant of Breda, The Netherlands.
- Constructing a model for the simulation of the High Rate Activated Sludge Process, based on two previously described models.

15/7/2013–
6/9/2013 **Internship in combination with master thesis**, *DC Water, Research and Development Department, Washington DC, USA.*



Project: Batch experiments under different conditions to obtain AOB and NOB oxygen half-saturation constants through parameter estimation using a specific model describing the experimental procedure.

5/7/2012–
31/8/2012 **IAESTE Internship**, *Aalto University, Department of Biotechnology and Chemical Technology, Espoo, Finland.*



Project: Catalysts used in the dehydration of xylose to furfural were characterized using micro-scale reactors, titration experiments and sugar-adsorption measurements.

Education

2012–2014 **Master in Bio-Science Engineering: Environmental Technology**, *Ghent University.*

2009–2012 **Bachelor in Bio-Science Engineering: Environmental Technology**, *Ghent University.*

Johan Daisnestraat 26 – 9000 Gent

☎ +32 479 74 55 02 • ✉ chaim.demulder@ugent.be

Born 27/3/1991 in Ghent

Extra-curricular



IAESTE

(International Association for the Exchange of Students for Technical Experience)

2016-2017 LC Ghent Exchange Coordinator

Board member of the Local Committee of Ghent, day-to-day management of a 25-person team of students. Responsible for international internship exchange and networking, jobraising.

2015-2016 LC Ghent Vice-President & Summer Reception Officer

General support on local level (team management) and within international IAESTE groups (Western European region). Jobraising and organizing activities for incoming trainees.

2014-2015 LC Ghent supporting member & Summer Reception Officer

Design of IAESTE T-shirts, presenting IAESTE to companies, jobraising. Organizing activities for incoming trainees.

2013-2014 LC Ghent Secretary

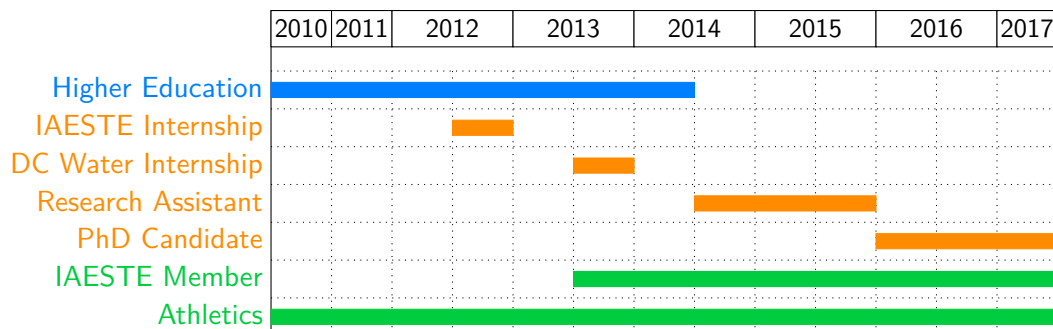
Responsible for meeting reports, jobraising.

Sports and general interests

2006-present Athletics (recreational and competition), music, climate related, environmental and social issues, Nordic culture

Skills

- Software
- o Advanced: WEST (Mike by DHI), Python, GitHub, \LaTeX
 - o Basic: MS Office, OpenFOAM, Matlab - Simulink, Inkscape, Drupal, command line tools
- Soft skills
- o Social and open-minded
 - o Enthusiastic, engaged, motivated
- Languages
- o Native: Dutch
 - o Fluent: English
 - o Basic: French, Swedish



Johan Daisnestraat 26 – 9000 Gent

☎ +32 479 74 55 02 • ✉ chaim.demulder@ugent.be

Born 27/3/1991 in Ghent