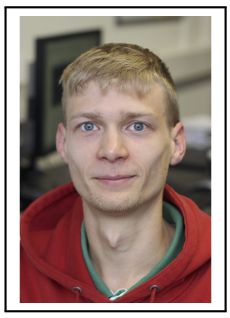


Chaïm De Mulder

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 and knowledge build-up 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.
- Construct a model for the simulation of the High Rate Activated Sludge Process, based on two previoulsy described models.

Other responsabilities:.

- Active member of the Belgian Division of the International Water Association (B-IWA):
  - Maintenance of website, LinkedIn- and Twitter-account.
  - Coordinator of the first, second and third B-IWA nocturnal
- Co-organizer of an IWA YWP Workshop (Aug 29 - 30, 2015)
- Assistant in the course Modeling and Control of Wastewater Treatment Plants, given at the Faculty of Bioscience Engineering, Ghent University.

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

Project: Batch experiments were conducted 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 Biotechnnology 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.

Johan Daisnestraat 26 – 9000 Gent
+32 479 74 55 02 • chaim.demulder@ugent.be
Born 27/3/1991 in Ghent

Education

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

MSc Thesis: Impact of intrinsic and extrinsic parameters on the oxygen kinetic parameters of Ammonia and Nitrite Oxidizing Bacteria

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

BSc Thesis: Integrated grey water systems in city renovation and development projects

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. Resposible for international internship exchange and networking, jobraising.

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

Attending conferences, jobraising, support within international IAESTE groups (Connect Region), general support. 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

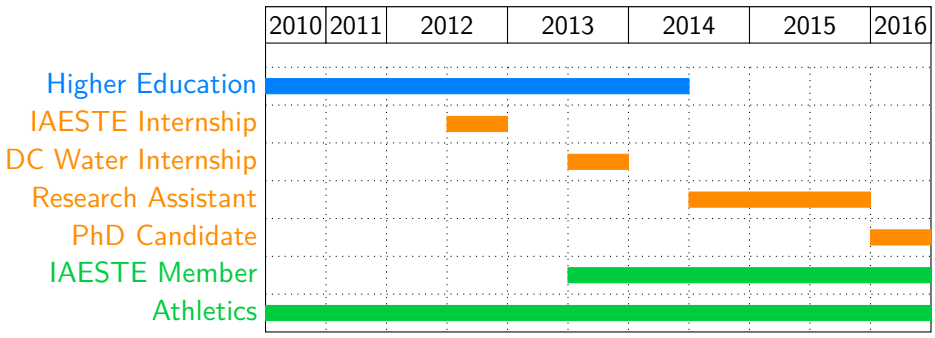
Skills

Software
- Advanced: WEST (Mike by DHI), Python, GitHub, LaTeX
- Basic: MS Office, OpenFOAM, Matlab - Simulink, Inkscape, Drupal, command line tools

Soft skills
- Social and open-minded
- Enthusiastic, engaged, motivated

Languages
- Native: Dutch
- Fluent: English
- Basic: French, Swedish

Johan Daisnestraat 26 – 9000 Gent
+32 479 74 55 02 • chaim.demulder@ugent.be
Born 27/3/1991 in Ghent



References

D. Seuntjens, **C. De Mulder**, H. De Clippeleir, S. Murthy, Z. Li, K. Chandran, I. Nopens & S. E. Vlaeminck (2014). Investigating AOB and NOB kinetic parameters for oxygen under moderate climate wastewater conditions. In *ENC, 19th European Nitrogen Cycle Conference, Abstracts*. Ghent, Belgium.

D. Seuntjens, B. Bundervoet, H. Mollen, **C. De Mulder**, E. Wypkema, A. Verliefde, I. Nopens, J. Colsen & S. E. Vlaeminck (2016). Energy efficient treatment of a-stage effluent: pilot-scale experiences with shortcut nitrogen removal. *Water Science and Technology*.

D. Seuntjens, B. Bundervoet, H. Mollen, **C. De Mulder**, E. Wypkema, A. Verliefde, I. Nopens, J. Colsen & S. E. Vlaeminck (2015). Energy efficient treatment of A-stage effluent: pilot-scale experiences with shortcut nitrogen removal. In *IWA Nutrient removal and recovery conference, papers*. IWA, Gdansk, Poland.

U. Rehman, Y. Amerlinck, M. Arnaldos, J. Porro, **C. De Mulder** & I. Nopens (2015). Computational fluid dynamic modeling of nitrous oxide in a full scale WWTP. In *Watermatex, 9th IWA Symposium on system analysis and integrated water management*. IWA, Gold Coast, Queensland, Australia.

Johan Daisnestraat 26 – 9000 Gent
+32 479 74 55 02 • chaim.demulder@ugent.be
Born 27/3/1991 in Ghent