



Chaïm De Mulder

Experience

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

Projects



Other responsibilities:

- Active member of the Belgian Division of the International Water Association (B-IWA):
 - Maintenance of website, [LinkedIn](#)- and [Twitter](#)-account.
 - Coordinator of the first B-IWA nocturnal, May 19th 2015.
 - Co-organizer of the second B-IWA nocturnal, May 18th 2016.
- Co-organizer of an IWA YWP Workshop (Aug 29 - 30, 2015)
- Assist in the course Modeling and Control of Wastewater Treatment Plants

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



Project abstract: 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. Using the obtained values, relations that indicate conditions under which AOB would outcompete NOB were sought for, potentially making energy-efficient N-removal through the anammox process possible.

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



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

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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

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 making notes during meetings and writing the meeting reports, jobraising.

Sports

2006–present Athletics (recreational and competition)

General interests

Music, climate related, environmental and social issues, Scandinavian culture

Skills

- Software
 - Advanced: L^AT_EX, WEST (Mike by DHI), Python
 - Basic: MS Office, , OpenFOAM, Matlab - Simulink, Inkscape, command line tools

- Soft skills
 - Social and open-minded

- Enthusiastic, engaged, motivated

- Languages
 - Native: Dutch

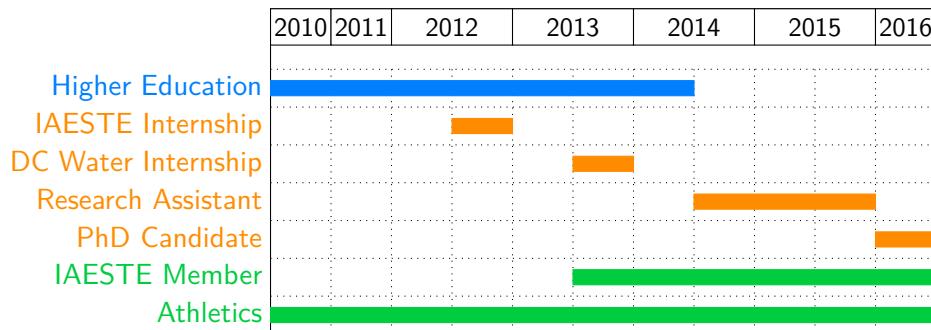
- Fluent: English

- Basic: French, Swedish

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References

- U. Rehman, Y. Amerlinck, M. Arnaldos, J. Porro, **De Mulder, Chaïm & 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.
- D. Seuntjens, B. Bundervoet, H. Mollen, **De Mulder, Chaïm**, 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.
- D. Seuntjens, **De Mulder, Chaïm**, 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.