



Prof. Dr. Arnout Van Messem

Department of Environmental Technology, Food
Technology and Molecular Biotechnology
Center for Biotech Data Science

- Office #1003, Ghent University Building, Incheon Global Campus, 119 Songdomunhwa-Ro, Yeonsu-Gu, Incheon, Korea
- Phone +82 32 626 4210
- Email arnout.vanmessem@ghent.ac.kr



Short Biographies

Professor Arnout Van Messem graduated *magna cum laude* in 2000 from the Vrije Universiteit Brussel as licentiate Mathematics, with a thesis on the topic of geostatistics, focussing on robustness properties of variograms and kriging. After his studies, he worked for five years as an actuary at Fortis AG (currently AG Insurance), and in the meantime obtained his degree in Actuarial Sciences *cum laude* in 2002 at the same university. In 2005 he started as a teaching assistant/Ph.D. student at the Department of Mathematics at the Vrije Universiteit Brussel. In 2011 he obtained his Ph.D. *summa cum laude* on robustness and consistency properties of Support Vector Machines, a topic situated within the domains of mathematical statistics and machine learning.

After his Ph.D., professor Van Messem held postdoctoral positions at the Department of Mathematics at the KU Leuven (September 2011 to December 2012) and the Department of Comparative Physiology and Biometrics at Ghent University (January 2013 to October 2013). At the same time (2012-2014), he held a 10% mandate as visiting professor at the Discipline Group Applied Mathematics at Hasselt University (October 2012 to October 2014). From November 2013 up to July 2015, he held a 90% visiting professorship (with focus on teaching duties) at the Department of Applied Mathematics, Computer Science and Statistics at Ghent University, which he combined with a 10% position as a statistical consultant (October 2014 to September 2015) for Stat-Gent CRESCENDO. Starting August 2015, he is appointed as statistics professor at the Ghent University Global Campus (GUGC) in South Korea. He remains affiliated to the Department of Applied Mathematics, Computer Science and Statistics from Ghent University.

At GUGC, he is responsible for a number of mathematical and statistical courses. As a member of the Center for Biotech Data Science, he will perform research on the application of machine learning techniques for biotech data. He will specifically focus on their



	<p>robustness properties under missing data, the development of robust statistical learning procedures for imaging data and (deep) machine learning techniques for big data.</p>
Research Area	<ul style="list-style-type: none">· Robust and Nonparametric Statistics· Machine Learning, Support Vector Machines and Kernel Estimators· Biostatistics
Education	<ul style="list-style-type: none">· (2000) Vrije Universiteit Brussel, Belgium (MSc)· (2002) Vrije Universiteit Brussel, Belgium (MSc)· (2011) Vrije Universiteit Brussel, Belgium (PhD)
Experience	<ul style="list-style-type: none">· (2000~2005) Actuary, Fortis AG, Belgium· (2005~2011) Teaching assistant, Vrije Universiteit Brussel, Belgium· (2011~2012) Scientific collaborator, KU Leuven, Belgium· (2012~2014) Visiting professor (10%), Hasselt University, Belgium· (2013~2013) Postdoctoral collaborator, Ghent University, Belgium· (2013~2015) Visiting professor (90%), Ghent University, Belgium· (2014~2015) Statistical consultant (10%), RAMIT vzw, Belgium· (2015~present) Assistant professor (10%), Ghent University, Belgium· (2015~present) Professor, Ghent University Global Campus, South Korea
Selected Publications	<ul style="list-style-type: none">· Van Dun P., Nicolaie M.A., and Van Messem A. (2016). State of affairs of osteopathy in the Benelux: Benelux Osteosurvey 2013. <i>International Journal of Osteopathic Medicine</i>, 20, 3–17.· Van Messem, A. and Christmann, A. (2010). A Review on Consistency and Robustness Properties of Support Vector Machines for Heavy-Tailed Distributions. <i>Advances in Data Analysis and Classification</i>, 4(2-3), 199–220.· Christmann, A., Van Messem, A., and Steinwart, I. (2009). On consistency and robustness properties of Support Vector Machines for heavy-tailed distributions. <i>Statistics and Its</i>



Interface, **2**, 311–327.

- Christmann, A. and Van Messem, A. (2008). Bouligand Derivatives and Robustness of Support Vector Machines. *Journal of Machine Learning Research*, **9**, 915–936.
- Varewyck M., and Van Messem A. (2015) RiskStandard. <https://github.com/StatGent/RiskStandard>. DOI: 10.5281/zenodo.34499.