Curriculum vitae Bruno Stuyts

Personal data

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Website:	https://www.pro-found.be
Date of birth:	24/04/1983
Nationality:	Belgian

Employment

May 2019 – Present: Visiting Professor Offshore Geotechnics at UGent

April 2019 – Present: Doctoral researcher at OWI-Lab (Vrije Universiteit Brussel)

June 2014 – Present: Self-employed independent geotechnical consultant at ProFound BVBA

January 2012 – June 2014: Group Technical Knowledge Manager at Cathie Associates

January 2010 – June 2014: Senior Project Engineer at Cathie Associates

September 2006 – December 2009:   Project Engineer at Cathie Associates

July 2005 – September 2005:   Internship at Anglo Coal South Africa on Risk Analysis and Probabilistic Modelling of Highwall Stability.

Education

➤ 2001 – 2006: MSc Mining and Geotechnical Engineering (Magna Cum Laude). Katholieke Universiteit Leuven. Thesis: Probabilistic Analysis of Pre-Split Blast Efficiency for Strip Mines.

➤ 1996 – 2001:   Secondary Education. Onze-Lieve-Vrouwecollege Oostende

Research interests

Offshore geotechnics, Reliability-based geotechnical design, Data science, Numerical modelling, Geotechnical data management, Cloud computing

Languages

➤ Dutch: Mother tongue

➤ English: Fluent, written and spoken

➤ French: Advanced, written and spoken

PUBLICATION HIGHLIGHTS

- Stuyts, B., Weijtjens, W., Devriendt, C., Versteele, H., Van den Haute, C. 2019. Monopile lateral response calibration from in-situ monitoring data. ISFOG2020. Austin, TX.
- Stuyts, B. 2020. Data science applications in geo-intelligence. Keynote Lecture. ISFOG2020. Austin, TX
- Stuyts, B., Ellery, G.D., Davidson, J., Torres, I., Rose, M.J., 2017. A methodology for the probabilistic assessment of pile refusal due to boulder encounter. SUT OSIG 2017. London, U.K.
- Stuyts, B., Cathie, D., Powell, T., 2016. Model uncertainty in uplift resistance calculations for sandy backfill. Canadian Geotechnical Journal 53(11): 1831-1840.
- Wallerand, R., Stuyts, B., Blanc, M., Thorel, L., Brown, N., 2015. A design framework for sliding foundations: Centrifuge testing and numerical modelling. Proceedings Offshore Technology Conference 2015. Houston, TX.
- Stuyts, B., Cathie, D., Guyatt, C., Boyde, P., Pyrah, J., 2015. Mechanical trencher modelling in hard ground: State-of-the-art. 3rd International Symposium on Offshore Geotechnics. Oslo, Norway.
- Stuyts, B., Gilbert, R.B., Cathie, D., 2013. A Reliability-Based Interpretation Framework for Pile-Supported Offshore Wind Turbines. Presented at the Offshore Technology Conference, Houston, Texas.
- Versteele, H., Stuyts, B., Cathie, D., Charlier, R., 2013. Cyclic loading of caisson-supported offshore wind structures in sand. Presented at the ISSMGE Conference, Paris, France.
- Kennedy, J., Oliphant, J., Maconochie, A., Stuyts, B., Cathie, D., 2013. Caisson: A Suction Pile Design Tool. Presented at the Proceedings of the 32nd International Conference on Ocean, Offshore and Arctic Engineering, OMAE2013.
- Stuyts, B., Cathie, D., Xie, Y., 2013a. Scour assessment and measurements for pile-supported wind turbine foundations. Presented at the Proc. of the 32nd Int. Conf. on Ocean, Offshore and Arctic Engineering, OMAE2013.
- Ozsu, E., Ta, A.-N., Stuyts, B., Jaeck, C., 2013. Optimizing Pile Driving Fatigue for Offshore Foundations in Very Dense Sand: A Case Study. Presented at the Proceedings of the ASME 2013 32nd International Conference on Ocean, Offshore and Arctic Engineering, OMAE2013.
- Merritt, A.S., Schroeder, F.C., Jardine, R.J., Stuyts, B., Cathie, D., Cleverly, W., 2012. Development of pile design methodology for an offshore wind farm in the North Sea. Presented at the SUT OSIG, London.
- Stuyts, B., Cathie, D., Falepin, H., Burgraeve, A., 2012. Axial pile capacity of wind turbine foundations subject to cyclic loading. Presented at the SUT OSIG 2012, London.
- Stuyts, B., Vissers, V., Cathie, D.N., Jaeck, C., Dörfeldt, S., 2010. Optimizing site investigations and pile design for wind farms using geostatistical methods: a case study. Presented at the ISFOG, Balkema, Perth, WA.

OPEN-SOURCE SOFTWARE

- Owner and principal developer of the open-source geotechnical engineering Python package groundhog: https://github.com/snakesonabrain/groundhog

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