

Tomas Beuzen

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Personal Summary

I'm currently a postdoctoral teaching and learning fellow with the Master of Data Science program at the University of British Columbia, Vancouver, Canada. I have experience in research, teaching, and engineering consulting. While I have demonstrated proficiency in doctorate level coastal engineering research and consulting, my primary interest now lies with the fields of data science and machine learning. In particular, I'm interested in the practical application of these fields to solving real-world engineering problems.

Education

PhD in Civil Engineering 2016 - 2019

University of New South Wales

BEng in Civil Engineering 2011 - 2016

University of New South Wales

BSc in Climate Dynamics 2011 - 2016

University of New South Wales

Skill Highlights

Experience

🔍 Research
🎓 Education
📊 Data science
🏗 Engineering consulting

Programming

📄 Latex
💻 Matlab
📊 R programming
🐍 Python programming

Other Skills

🌐 GIS
🖨 Microsoft Office
🔍 Strong publication record

Experience

Postdoctoral Teaching and Learning Fellow

August 2019 - Present

University of British Columbia

Part of the UBC Master of Data Science (MDS) program. Main roles include assessing MDS admissions, updating and expanding the MDS curriculum, managing teaching assistants, instructing lecture and lab components of the course, planning capstone projects, mentoring students in their capstone projects and collaborating with industry partners, and liaising with other UBC units engaged in Data Science teaching and learning initiatives.

Graduate Engineer

June 2018 - June 2019

Royal HaskoningDHV

Worked as a coastal engineer on local and international projects. Tasks included wave and water level modelling, sediment transport modelling, liaising with clients and project managers, report writing and field investigations.

Teaching Assistant

June 2013 - April 2019

University of New South Wales

Teaching assistant for over 15 different civil and environmental engineering courses at the University of New South Wales. Involves preparing and delivering material to classes, ranging from 20 to 50 students and lasting 1 to 4 hours. Courses included water engineering, geotechnical engineering, structural engineering, project management, mathematics and statistics for engineers, and final year theses.

Consultant

December 2012 - March 2013

EMGA Mitchell McLennan Planning and Environmental Consultancy

Assisted all aspects of the consulting process in fields of geotechnical, transport, environmental, acoustic engineering and project management. Duties included site visits, writing Environmental Assessments, budgeting and tenders. Primarily worked on successful tenders for the Sydney North West Rail Project.

Key Publications

Ensemble models from machine learning: an example of wave runup and coastal dune erosion*Natural Hazards and Earth Systems Science, September 2019***A variable selection package driving Netica with Python***Environmental Modelling and Software, January 2019***A comparison of methods for discretizing continuous variables in Bayesian Networks***Environmental Modelling and Software, July 2018***Bayesian Networks in coastal engineering: Distinguishing predictive and descriptive applications***Environmental Modelling and Software, January 2018***Physical model study of beach profile evolution by sea level rise in the presence of seawalls***Journal of Coastal Engineering, December 2017***References**

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