Marco Miani

September 11th, 1981 in Bolzano/Bozen (Italy)

Education

2013→2016	**Ph.D. candidate Engineering**, *Department of Civil and Environmental Engineering (*Ingegneria Civile, Ambientale e die Materiali*), Hydraulic Eng., University of Bologna, Italy*, (note: resigned before completion).
2006→2009	**Master of Science**, *M.Sc. in Geophysics (Phys. Oceanography), University of Lisbon*, Portugal, Thesis: *Wave Propagation in the Nearshore, with Application on Wave Energy Resource Assessment.*
2008	**Internship**, *Deltares*, Delft, Topic: Sea Level Anomalies in the Singapore regional waters, concerning water level data analysis, using spectral and tidal analysis techniques, making use of DELFT3D Tide module and MatLab software. Supervised by: Dr. Hermann Gerritsen.
2006	**Bachelor of Science**, *Environmental Science*, University of Bologna, Bachelor Thesis: *Geo-electrical Sounding and saline intrusion. The study case of Ravenna Pinewood.*.

Working Experience

2020	**The Cyprus Institute**, *Computational Support Specialist*, data scientist and modelling expert, (data visualization, post processing and teaching assistence).
2018→2019	**I.M.D.C**, *Project Engineer*, numerical wave modeller, coastal&hydraulic engineering.
2017	**University of Vienna**, *Faculty of Earth Sciences, Geography and Astronomy*, Data Scientist and enviroinmental sensor technical specialist.
2016	**High School Teacher**, *Istituto di Istruzione Superiore Aldini Valeriani Sirani*, Bologna, Italy, Mathematics and Physics teacher - english teaching framed in C.L.I.L project (Content and Language Integrated Learning).
2015	**RWTH Aachen University**, *Aachen, Germany*, Visiting Research Fellow.
2009→2012	**Coastal Research Centre**, *Norderney, Germany*, numerical wave modelling and on field oceanographic measurements.
2013	**Joint Research Centre (EU Commission)**, *Ispra, Italy*, Framed in my Ph.D. programme, 6 months traineeship at The Institute for the Protection and Security of the Citizen (IPSC), numerical and physical water wave modelling.

Miscellaneous

Scientific Progr.:	MatLab, Python and Fortran. MySQL. Hydraulic Modeling: SWAN, SWASH, XBEACH, TELEMAC, DHI-MIKE, Delft3D, NCL & netCDF, Ferret.

Peer-Reviewed Journals

- **Miani, M.**, van der Meer, J., Pohl, R., Scheres, B., Schüttrumpf, H., *Spatial aspects of Wave run-up and Wave overtopping at seadikes*, Coastal Eng. (under preparation)

- Dissanayake, D.M.P.K., Wurpts, A., **Miani, M.**, Knaack, H., Niemeyer, H.D. and Roelvink, J.A., 2012, *Modelling morphodynamic response of a tidal basin to an anthropogenic effect: Ley Bay, East Frisian Wadden Sea - applying tidal boundary only and different sediment fractions*, Coast. Engng., 67, 14-28.

Conference Proceedings

- **Miani**, Scheres, Schüttrumpf, van der Meer, *Spatial Aspects of Wave Run-up and Wave Overtopping*, 35-th International Conference on Coastal Engineering (ICCE), Istanbul 2016.

- **Miani, M**., Dissanayake, P., Archetti, R., Lamberti, A., 2015. Sand dune breaching along the Emilia-Romagna Littoral zone:a deterministic approach, 36th IAHR World Conference, The Hague, The Netherlands.

- Dissanayake, P., Andreas, W., **Marco, M.**, Heiko, K., Roelvink, D., 2012. Intercomparison of Sediment Transport Formulas in long term morphodynamics, 16th Physics of Estuaries and Coastal Seas, Manhattan, USA.

- Dissanayake, P., Andreas, W., **Marco, M.**, Heiko, K., 2012. Modelling anthropogenic effect of a tidal basin evolution, Proc. 33rd Int. Conf. Coastal Eng., Santander, Spain.

- Niemeyer, H.D., Berkenbrink, C., **Miani, M.**, Ritzmann, A., Dissanayake, P., Knaack, H., Wurpts, A., Kaiser, R., 2011. Coastal Protection of Lowlands: Are Alternative Strategies a Match to Effects of Climate Change, 5th International Short Conference on Applied Coastal Research, Aachen, Germany.

- Niemeyer, H.D., Kaiser, R., Knaack, H., Dissanayake, P., **Miani, M.**, Elsebach, J., Berkenbrink, C., Herrling, G., Ritzmann, A., 2011. Evaluation of Coastal Protection Strategies for Lowlands in Respect of Climate Change, 34th IAHR World Conference, Brisbane, Australia.

Technical Reports

- **Miani M.**, Consoli S., Galliano D., Rossi E., Annunziato A. (2013). *Physical and numerical simulation of a scaled tsunami wave.* European Commission, Joint Research Centre (Ispra). ISBN: 978-92-79-32512-0

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