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CONTACT Information

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EDUCATION

Ph.D. (2008), Coastal Geomorphology/Nearshore Oceanography, University of Plymouth, Plymouth, UK. Morphodynamics, Sediment Dynamics and Sedimentation of a Gravel Beach. Advisor: Prof. Gerhard Masselink.

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BSc (Hons), 1st class (2003), Physical Geography with Minors in Environmental Sciences and Biology, Lancaster University, Lancaster, UK. Morphodynamics of a Ridge-and-Runnel System on a Macrotidal Beach. Advisor: Dr Suzanna Ilic.

EMPLOYMENT HISTORY November 2012 – present. Research Geologist, Grand Canyon Monitoring and Research Center, U.S. Geological Survey, Flagstaff, AZ, USA.

October 2009 — November 2012. Post-doctoral Research Fellow, School of Marine Science & Engineering, University of Plymouth, UK.

September, 2008 – 2011. Computer Programming Contractor, Marine Biology & Ecology Research Centre, University of Plymouth, UK.

October, 2008 – October 2009. Post-doctoral Research Scholar, United States Geological Survey, Santa Cruz, California, USA.

June, 2008 - September, 2008. Research Assistant, School of Geography, University of Plymouth, UK.

December, 2007 – April, 2008. Research Assistant, School of Earth, Ocean & Environmental Science, University of Plymouth, UK.

October, 2004 – July 2008. Associate Lecturer and Demonstrator (part-time), School of Geography, University of Plymouth, UK.

August 2003 - September, 2004. Assistant tutor, Field Studies Council, Castle Head, Grange-over-Sands, UK.

TEN SELECTED PUBLICATIONS

- 1 Buscombe, D., and Masselink, G. (2006) Concepts in Gravel Beach Dynamics. Earth Science Reviews 79, 33-52.
- 2 Masselink, G., Buscombe, D., Austin, M.J, O'Hare, T., Russell, P. (2008) Sediment Trend Models Fail to Reproduce Small Scale Sediment Transport Patterns on an Intertidal Beach. Sedimentology 55, 667-687.
- 3 Austin, M.J., and **Buscombe**, **D.** (2008) Morphological Change and Sediment Dynamics of the Beach Step on a Macrotidal Gravel Beach. *Marine Geology* 249, 167-183.
- 4 Buscombe, D., Rubin, D.M., and Warrick, J.A. (2010) Universal Approximation of Grain Size from Images of Non-Cohesive Sediment. *Journal of Geophysical Research Earth Surface* 115, F02015.
- 5 Williams, J.J., **Buscombe**, **D.**, Masselink, G., Turner, I., and Swinkels, C. (2012) Barrier Dynamics Experiment (BARDEX): Aims, Design and Procedures. *Coastal Engineering* 63, 3-12.
- 6 Buscombe, D., and Conley, D.C. (2012) Effective Shear Stress of Graded Sediment. Water Resources Research 48, W05506.
- 7 Buscombe, D., and Rubin, D.M. (2012) Advances in the Simulation and Automated Measurement of Granular Material, Part 1: Simulations. *Journal of Geophysical Research Earth Surface* 117, F02001.
- 8 Buscombe, D., and Rubin, D.M. (2012) Advances in the Simulation and Automated Measurement of Granular Material, Part 2: Direct Measures of Particle Properties. *Journal of Geophysical Research Earth Surface* 117, F02002
- 9 Lacy, J.R., Rubin, D.M. and **Buscombe, D.** (2012) Currents and sediment transport induced by a tsunami far from its source. *Journal of Geophysical Research Oceans* 117, C09028.
- 10 Buscombe, D. (2013) Transferable Wavelet Method for Grain Size-Distribution from Images of Sediment Surfaces and Thin Sections, and Other Natural Granular Patterns. Sedimentology 60, 1709–1732. DOI: 10.1111/sed.12049