

MATT A. O'REGAN

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Academic Degrees and Titles

- Docent 2016, "*Physical properties of marine sediments*", Department of Geological Sciences, Stockholm University.
- Ph.D 2007, "*A Cenozoic History of the Central Arctic Ocean*", Graduate School of Oceanography, University of Rhode Island, USA, *Geological Oceanography*, Supervisor: Prof. Kathryn Moran.
- B.Sc. 1994, Trent University, Ontario, Canada. *Environmental Science and Biology*.

Pedagogy Training

- 2014 Research Supervision, Stockholm University.
- 2013 University Pedagogy 1, Course Design, Stockholm University.

Other Education

- 1996-97: Environmental Engineering Technology, University College of Cape Breton, NS, Canada.

Positions

- 2012- Research Scientist, *Sediment Physical Properties*, Department of Geological Sciences, Stockholm University, Sweden.
- 2010-12: Lecturer, *Sedimentary Geology*, School of Earth and Ocean Science, Cardiff University, UK.
- 2009–10: Post-Doctoral Researcher, Stockholm University, Department of Geological Sciences/ Bert Bolin Centre for Climate Research. Project: *Arctic circulation and sea-ice patterns: Perspectives from marine sediment records*.
- 2007-08: Post-Doctoral Researcher, University of Rhode Island/Cardiff University. Project: *Alternative Methods for Characterizing Strength in Poorly Consolidated Formations*. Funded by BP America.
- 2002: Research Assistant, *Paleomagnetism laboratory*, Southampton Oceanography Centre, UK.
- 1997–01: Marine Laboratory Specialist, Ocean Drilling Program, College Station, Texas, USA.
- 1996–97: Student Research Assistant, *Marine Geomechanics Laboratory*, Bedford Institute of Oceanography, Nova Scotia, Canada.

Shipboard Experience

- 2015: Shipboard Scientist, PI for Geology Program, Transitions in the Seasonal Ice Zone (TRANSSIZ), Polarstern, May 19 – June 28, Bremerhaven, Germany – Longyearbyen, Svalbard.
- 2014: Shipboard Scientist, Work Package Leader (Sediment Physical Properties), *SWERUS-C3*, I/B Oden, Barrow Alaska - Tromsø, Norway, August 18 – October 4.
- 2013: Shipboard Scientist, R/V Helmer Hanssen, April 15-24, Tromsø, Norway.
- 2010: Shipboard Scientist, Swedish *Oden* Southern Ocean (OSO0910) expedition to Pine Island Bay.

- 2009: Shipboard Scientist, Sea Acceptance Test II (SAT) for the *Oden* EM122 multibeam off Svalbard.
- 2004: Shipboard Scientist, Stratigraphic Correlator, IODP 302, *The Arctic Coring Expedition (ACEX)*.
- 2003: Shipboard Scientist, Physical Properties, ODP Leg 207, *Demerara Rise*.
- 1997–01: Marine Laboratory Specialist, 10 cruises on the *JOIDES Resolution*. ODP Legs; 174a – New Jersey Sea-level, 175 – Benguela Current, 177 – Southern Ocean Paleooceanography, 179 – Hammer Drilling (Indian Ocean), 181 – Southwest Pacific Gateways, 183 – Kerguelan Plateau-Broken Ridge, 185 – Izu-Mariana Margin, 188 – Prydz Bay, 190 – Nankai Trough, 199 – Paleogene Equatorial Pacific.
- 1996: Student Research Assistant, *CCGS Hudson* expedition to *Sable Island*, Nova Scotia.

Research Grants and Awards

- 2018 Awarded Anna-Greta and Holger Crafoord Foundation Stipend by the Royal Swedish Academy of Sciences: (CR2018-0040) "*Resolving a 3500-year record of Pacific water inflow to the Chukchi Sea and its link to Arctic multi-decadal climate variability*"
- 2017-21 Swedish Research Council (VR) Project Grant, Principal investigator. "*The late Quaternary chronology of Arctic Ocean sediments*".
- 2015-19 Swedish Research Council (VR), Co-applicant (PI. Ian Snowball, Uppsala University). "*High northern latitude palaeomagnetic signals in Quaternary sediments: cracking a conundrum*".
- 2014-17 FORMAS, co-applicant on "*Targeting emerging contaminated sediments along the uplifting northern Baltic coast of Sweden for remediation (TREASURE)*". PI. Ian Snowball, Uppsala University.
- 2013-17 Swedish Research Council (VR), Junior Researchers Project Grant, "*Physical and geothermal properties of Arctic Ocean sediments: Boundary conditions required to improve assessments of marine hydrate stability and dissociation*".
- 2010: Swedish YMER80 stipend, "*Shear strength characteristics of glacially overridden sediments*".
- 2005: Joint Oceanographic Institutions, Post-cruise Research Award. IODP Expedition 302. "*Stress history and the evolution of sedimentation on the Lomonosov Ridge, Central Arctic Ocean*".
- 2003: Joint Oceanographic Institutions, Post-cruise Research Award. PI. ODP Leg 207. "*Consolidation, permeability and stress history of sediments from Demerara Rise*".

International Activities

- 2018-22 Steering committee member for *PaleoArc*. *PaleoArc* (Processes and Palaeoenvironments in the Arctic, from past to present) is an interdisciplinary network for polar geoscientists that brings together terrestrial and marine geologists working towards advancing our understanding of Arctic climate change. It is the successor to 'PAST Gateways', 'APEX' (Arctic Palaeoclimate and its Extremes), 'QUEEN' (Quaternary Environment of the Eurasian North) and 'PONAM' (PolarNorth Atlantic Margins).
- 2013- 15 European Consortium for Ocean Research Drilling (ECORD) representative on the Science Evaluation Panel (SEP) for the International Ocean Discovery Program (<http://www.iodp.org/facility-boards>).
- 2009- 15 Executive committee member of the *Arctic in Rapid Transition* (<http://www.iarc.uaf.edu/ART/>), an International Arctic Science Committee (IASC) sponsored research and training network.

Teaching Experience

- Current Course leader for *Geology and Geophysics (GG2202)*, *Marine Petrophysics (GG5126)*, and contributor to *Marine Geological and Geophysical Field Methods (GG4121)*, *Paleoceanography and Paleoclimatology I (GG5113)*.
- 2013- Contributor to AG-342 '*The Marine Cryosphere and its Cenozoic History*', University Centre in Svalbard (UNIS).
- 2013: Contributed to AG-345 "*Dating methods and application in Arctic terrestrial and marine Quaternary Geology*", University Centre in Svalbard (UNIS).
- 2010-11: Module leader, *EA1101-Earth and Planetary System Science*; *EA0101- Planet Earth*; *EA3018- Basin Analysis and Petroleum Geology*, Cardiff University.
- 2010-11: Developed 1st year module to strengthen quantitative skills in Earth Science Students (*EA1104-Earth Science Skills*), Cardiff University.
- 2008: Module Leader, *EA1010-Sedimentary Systems*, Cardiff University, UK.