

MELISSA FLETCHER

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CAREER OBJECTIVES

To pursue a progressive career in the increasingly relevant fields of geological and environmental science and to continue to gain and share knowledge through everyone that I meet. The ideal position will challenge me whilst giving me the opportunity to prove myself as a valuable member of the team.

EDUCATION AND QUALIFICATIONS

2012 – Present

University of Sydney - Master of Science by Research (Geosciences)

Titled: An analysis of the morphology and submarine landslide potential of the upper and middle continental slope offshore Fraser Island, Queensland, Australia.

2010

University of Canterbury - Postgraduate Diploma in Science with Merit (Endorsed in Environmental Science)

Courses Included: Aquaculture, Concepts, Principles and Case Studies in Environmental Science, Coastal and Fluvial Earth Systems and a research project on the effects of current velocity and transport of suspended sediment in a coastal embayment.

2007 – 2009

University of Canterbury - Bachelor of Science in Geography and Biological Sciences

Courses Included: Coastal Studies, Marine Biology, Research Methods in Geography, Environmental Hazards and Management and Experimental Design and Data Analysis for Biologists.

2002 – 2006

Burnside High School - University Entrance

Courses Included: Geography, Biology, Chemistry, Statistics and Calculus.

MAJOR ACHIEVEMENTS AND AWARDS

- Volunteered at the 'Giant Science' event at The University of Sydney in April 2013. My role was to help a PhD student teach 600 primary students all about fossils. The aim of the program was to promote science to young people and get them to engage and become interested in science.
- Ship time on the RV Southern Surveyor (SS2013-V01) in January 2013. Main duties on board were to control and monitor the swath, seismic and gravity corer equipment in the operations room (computationally controlled) and to help out on deck retrieving, labelling and storing dredges and gravity cores as they came in.

- In January 2012 I underwent my first solo trip to Cambodia, where I volunteered for one month through Projects Abroad on the island of Koh Rong Samleom doing Diving and Marine Conservation. The project involved conducting reef and fish check surveys by scuba diving to gather data for the local fisheries department. Land-based projects also included beach-clean ups and awareness talks to the local villages.
- Awarded a Summer Scholarship by the University of Canterbury to study intertidal sedimentation in Lyttelton and Akaroa Harbours and Okains Bay Estuary from December 2010 to February 2011. The project was proposed to be a three year study on behalf of the Christchurch Regional Council (Environment Canterbury), where my role was to set-up the project and run the first initial surveys, followed by writing a preliminary report available on request.
- Awarded the 2010 R.W. Morris Prize for academic achievement in coastal research within Geography (University of Canterbury) - My research dissertation entitled Coastal Hydrodynamics and Atmospheric, studied how both land and water-based processes affect sediment levels inside a coastal embayment.

SKILLS AND EXPERTISE

Skills and Equipment

- Mastersizer 2000 for grainsize analysis.
- Oedometer.
- Vane Shear.
- Wet Sieving.
- Radiocarbon dating using foraminifera species.
- Core Logging.
- Plastic and liquid limit tests.
- Triaxial.

Software

- Strata3 for core logging.
- Fledermaus for bathymetric mapping.
- ArcGIS (beginner).
- Adobe Photoshop, Illustrator and InDesign (beginner).
- Endnote.
- Microsoft Office (Word, Excel, Publisher, Outlook, PowerPoint) (Advanced).

COURSES ATTENDED

- Fledermaus Workshops 2013 and 2014 (Acoustic Imaging).
- Learning ArcGIS Desktop (for ArcGIS 10) web course.
- “Operational Seismic and Sequence Stratigraphy” 3 day workshop through the Petroleum Exploration Society of Australia (PESA).

CONFERENCE PRESENTATIONS

- **M. Fletcher**, T. Hubble, S. Clarke, D. Airey, J. Webster, P. Yu, E. De Carli (2013). Submarine Landslide Morphology of Box Slides Present on the Continental Slope Offshore Fraser Island, Queensland, Australia. Abstract presented at Geosciences 2013 Conference, Christchurch, New Zealand, 24-27 Nov.

WORK EXPERIENCE

September 2012 – Present

Woolbrokers Hotel, Sydney, Australia

Casual Receptionist

July 2012 – December 2012

Woollahra Municipal Council, Sydney, Australia

Environmental Assistant: Volunteered two days a week helping out the environmental team with projects such as the Coastal Zone Management Plan and storm water testing of coastal outlets.

April 2012 – June 2012

Aurecon, Christchurch, New Zealand

Geotechnical Professional Officer: Assisted the geotechnical engineers with tasks such as creating maps for project reports, uploading Environment Canterbury bore logs, typing up field notes and creating log profiles using gINT software. I also assisted in the field with site checks for the Christchurch earthquake rebuild including the use of DCP's (Dynamic Cone Penetrometers) and logging of data at various sites throughout Canterbury.

July 2011 – December 2011

HCF Health Insurance, Sydney, Australia

Office All Rounder

March 2011 – July 2011 BSI People Limited, Sydney, Australia

Office Administrator

March 2009 – February 2011

Vbase Limited, Christchurch, New Zealand

Corporate Host

December 2007 and 2008

Aurecon, Christchurch, New Zealand

Administration Assistant

March 2005 – October 2006

Hoyts Cinemas, Christchurch, New Zealand

Cinema Attendant

INTERESTS

Touch rugby, snow and water skiing, scuba diving, scrapbooking and card making.

REFEREES

Available on request.