

JONATHAN IZETT

DEPARTMENT OF OCEANOGRAPHY • DALHOUSIE UNIVERSITY
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EDUCATION

Master of Science (Supervisor: Dr. Katja Fennel) Sept. 2014 – Present
Oceanography
Dalhousie University, Halifax, NS, Canada

Bachelor of Science (with Distinction) Sept. 2010 – May 2014
Combined Physics and Ocean Science (Ocean-Atmosphere Dynamics)
University of Victoria, Victoria, BC, Canada

COMPETENCIES

Research and Analytical Skills

- Strong academic basis in oceanography, climate dynamics, physics, and mathematics
- Background in developing and analyzing numerical models of natural processes, for example through the use of GOTM and ROMS for MSc research, as well as occasionally writing and editing custom code in Fortran
- Capable of analyzing and interpreting large data sets using statistical methods through research experience
- Proficient in Windows, Mac, and Linux environments
- Over four years' experience in use of MATLAB, IDL, and R for modelling and analysis purposes
- Practiced in the use of various resources for academic research
- Experience mentoring other students through assisted supervision of undergraduate research
- Able to work in both self-guided, and team-oriented settings having worked on larger team projects at JASCO as well as performing individual academic research

Other

- Fluent in English, with basic knowledge of Spanish and French
- Capable of using a variety of word processors, including Microsoft Word and LaTeX.
- Experienced in public speaking to groups of various sizes
- Able to manage time and prioritize tasks effectively: developed through balancing school, and extracurricular commitments

PROFESSIONAL EXPERIENCE

Acoustician; Summer Student May 2014 – August 2014
JASCO Applied Sciences, Victoria BC May 2013 – September 2013

- Modified and wrote custom software for acoustic data analysis, primarily using IDL
- Year 1: Developed analysis techniques through the application of various acoustic filters to previously collected data, comparing methods of determining sound exposure levels for marine mammals
- Year 2: Collaborated on development of mathematical computer model to predict ocean sound levels

OTHER EDUCATIONAL/PROFESSIONAL ACTIVITIES

BATS Research Cruise September 2015

- Participated in the September 2015 BATS cruise to the Sargasso Sea with the Bermuda Institute of Ocean Sciences (BIOS) as part of the Dalhousie-BIOS Sea Experience Program
- Assisted in the deployment and retrieval of oceanographic instruments and aided in the collection of various samples, learning field procedures and techniques

Summer School July 2015

- Topic: Coastal Meteorology and Oceanography
- Hosted by the University of Lisbon, and Stockholm University at the Portuguese Naval Academy in Lisbon, PT
- Included courses in oceanography as well as atmospheric processes and modelling, taught by a range of experts

Current Tides Editor 2015

- Help to edit research articles for Dalhousie Oceanography student magazine (<http://currenttides.ocean.dal.ca/>)

Memberships and Subscriptions

- The Oceanography Society (Student Member; 2015)
- Physics Today Magazine (2015)

AWARDS and DISTINCTIONS

Nova Scotia Scholarship, Master's Level	2015
Dalhousie-BIOS Sea Experience Scholarship	2015
Nova Scotia Scholarship, Master's Level (Honourary)	2014
NSERC Alexander Graham Bell CGS M Graduate Award	2014
University of Victoria Faculty of Science Dean's List	2012, 2013, 2014
Mackay Family Entrance Scholarship (Renewable), University of Victoria	2010-2013
Alfred and Adriana Potvin Scholarship in Ocean Science, University of Victoria	2013
Harry and Martha Dosso Scholarship in Physics, University of Victoria	2012
BCIC Science Achievement Award, British Columbia Innovation Council	2010
Valedictorian of 2010 Graduating Class, Claremont Secondary School, Victoria, BC, Canada	2010
Second Dan Black Belt in Taekwondo	2008

PUBLICATIONS and PRESENTATIONS

Oral Presentations

Izett, J., T. Kalvelage, K. Fennel, and D. Wallace, (2015). *Modelling the nitrogen cycle in Bedford Basin*, CDOGS, 2015.

Conference Proceedings

MacGillivray, A., C. McPherson, G. McPherson, **J. Izett**, J. Gosselin, Z. Li, and D. Hannay, (2014). *Modelling underwater noise in the Great Barrier Reef Marine Park using AIS vessel track data*, InterNoise, 2014.

OTHER ACTIVITIES

VOLUNTEER/COMMUNITY

- “Sunday Supper” (Halifax, NS, Canada) 2015 – Present
 - Serve dinner to members of the local community with volunteers from St. Andrew's Church
- Community Breakfast (Victoria, BC, Canada) 2006 – 2015
 - Work alongside other volunteers to set up and clean church hall, and serve breakfast to hundreds of patrons on the third and fifth Saturdays of every month (two separate events hosted by Glad Tidings Church, and BC Ferries employees, respectively)

GENERAL INTEREST

- There is no better study break for me than getting outside and being active. In particular, I enjoy hiking and kayaking in the beautiful setting of the Canadian outdoors.
- I have been playing soccer since I was just three years old. My love for the sport has grown into a lifelong passion that has seen me acting as a player-coach for my team over the past two seasons; assuming responsibility for team management and training. I now play for various department intramural teams at Dalhousie, winning an assortment of five soccer championships in my rookie season!
- For a quiet evening, I enjoy reading a good book (preferably non-fiction, or a spy novel), as well as playing board games with friends and family (my favourites include Trivial Pursuit, and Cranium).