

# David G. Delaney, Ph.D.

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Citizen of both Canada and the United States of America (U.S.A.)

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## EXECUTIVE SUMMARY

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A respected marine scientist and community conservation project leader with experience in non-profits, academia, for-profit consulting, and governmental groups focused on conservation; expertise in aquatic sciences, fisheries, marine biology, invasion ecology, coral reef science, climate change, science and policy, participatory citizen science, and environmental education. He has accumulated over 10 years of experience in Hawai'i, Canada, South Africa, Galapagos, Mozambique, Australia, Namibia, and the aquatic habitats on both coasts of North America. Experienced college-level conservation educator and eco-tourism expedition leader. Founder of an international citizen science network that monitored invasive species and biodiversity of North America and for this work he received funding from various sources and a Visionary Award. Recognized creative strategic thinker, program architect, fundraiser, leader, and partnership builder.

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## SELECTED LIST OF PROFESSIONAL EXPERIENCE

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- Owner:** Delaney Aquatic Consulting, Honolulu, Hawai'i, U.S.A. Jan. 2016-pres.
- Executing data collection, preparation, and advanced statistical analyses
  - Proposal writing, obtaining contracts, budgeting, and completing projects on time
  - Determining the best solution for environmental problems
  - Conducting benthic, biological, and sonar surveys of various aquatic environments
  - Facilitating meetings with diverse sets of stakeholders and researchers
- Post-doctoral Researcher:** University of Hawai'i, Honolulu, Hawai'i, U.S.A. Apr. 2016-Apr. 2017
- Developing science-based documents to inform management decisions
  - Assisting an economic feasibility study for recreational fishing license system and a total economic valuation for nearshore fisheries in the main Hawaiian Islands
  - Executing a meta-analysis of creel surveys conducted in Hawai'i
  - Supervising an intern on research on manta rays in Hawai'i
- Senior Biologist:** Cramer Fish Sciences, Honolulu, Hawai'i, U.S.A. Jan. 2015-Feb. 2016
- Led the development of a salmonid life-cycle model for resident and steelhead trout
  - Wrote grants and broadened our customer base and funding sources (*e.g.* the National Aeronautics and Space Administration [N.A.S.A.])
  - Conducted data analysis on multiple projects involving fish biology, conservation, genetics, habitat restoration, monitoring, and resource management
  - Published peer-reviewed manuscripts on conservation and fisheries research
  - Reviewed past experimental designs and recommended improvements for future experimental designs, monitoring designs, and ecological models
- Fisheries Biologist:** Cramer Fish Sciences, Auburn, California, U.S.A. Jan. 2013-Jan. 2015
- Conducted data analysis on multiple projects including analysis for a \$2,000,000 study
  - Developed an equation-based multistate model to estimate the survival, movement, and detection probabilities of anadromous fish in the Sacramento-San Joaquin Delta
  - Project lead on a study conducted by consultants and governmental agencies
  - Generated over \$200,000 in profit for the company
- Research Fellow:** Oceans Research, Mossel Bay, Western Cape, South Africa May 2012-Jun. 2013
- Principal investigator on a multifaceted, multimillion dollar project
  - Supervised multiple honors students

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**Director of Research:** Oceans Research, Mossel Bay, Western Cape, South Africa Nov. 2011-May 2012

- Managed 16 research projects focusing on sharks and marine mammals
- Supervised the research organization during its most productive publishing year
- More than tripled the number of scientific permits the organization received
- Published papers in peer-reviewed scientific journals (*e.g. Marine Biology, PLOS One*)
- Principal investigator on multiple research projects and supervised the budgets of all research projects

**Principal Investigator:** Oceans Research, Mossel Bay, Western Cape, South Africa Apr.-Nov. 2011

- Conceived, designed, implemented, sustained, and analyzed the data from a mark-recapture study
- Conducted original research on various marine species with a focus on sharks and marine mammals
- Created and presented a 4-hour seminar and hands-on workshop on statistics and designing experiments. This seminar was given every month
- After three months, I was promoted to the Scientist in Residence position
- Wrote grants and obtained research funds from various funding bodies

**Executive Director:** Invasive Tracers, Montreal, Quebec, Canada Mar. 2004-Apr. 2011

- Recruited, trained, and supervised 7,000 volunteer “citizen scientists” to monitor over 60 sites from New Jersey, U.S.A. to Prince Edward Island, Canada
- Gave 500 presentations to diverse audiences for training and fund raising,
- Co-produced an educational video featuring an interview with Dr. J. T. Carlton
- Obtained and renewed collection and scientific research permits from 7 state-level governmental conservation agencies and federal parks

**Substitute Teacher:** Hingham High School, Hingham, Massachusetts, U.S.A. Dec. 2010-Apr. 2011

- Taught five honors-level courses on anatomy, physiology, biology, and ecology
- Taught senior-level course on human anatomy and physiology
- Taught previously designed lesson plans and ones that I created
- Created a productive and positive classroom environment for learning
- Won the Hingham High School Teacher of the Week Award

**Harbor Discoveries Instructor:** New England Aquarium, Boston, Massachusetts, U.S.A. Jun.-Oct. 2010

- Trained students to collect accurate data on the abundance of intertidal species for the New England Aquarium and Census of Marine Life databases
- Supervised data collection to ensure the protocol was executed properly
- Coordinated and organized a conference for researchers, volunteers, and the public
- Planned, designed, and implemented a complete curriculum for four different themes of an environmental and marine-based education program
- Taught on a variety of topics in biology, ecology, and marine sciences
- Supervised and maintained group dynamics to optimize work success, safety, and enjoyment of the students, parents, and staff

**Research Assistant:** Zavora Marine Laboratory, Zavora, Mozambique Mar. 2010

- Conducted visual surveys of recreational scuba divers activities to establish their impact on the health of coral reefs, benthic communities, and manta rays
- Executed standardized coral reef monitoring protocols (*e.g. Reef Check*) to monitor long-term impacts on reef structure and diversity
- Conducted underwater photo-identification of manta rays and whale sharks

**Field Assistant:** Oceans Research, Mossel Bay, Western Cape, South Africa Feb. 2010

- Conducted photo-identification and mark-recapture methods to establish and monitor the population status and abundance of sharks and marine mammals
- Used acoustic telemetry equipment to track the movement of white sharks

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**Research Assistant:** McGill University, Montreal, Quebec, Canada Sep. 2008-Jun. 2009

- Conducted a study on the sustainability of student response systems (*i.e.* clickers) in undergraduate science classes to determine if it is worth investing up to \$500,000
- Created paper-based questionnaires to assess the students' satisfaction with clickers
- Conducted clicker-based surveys of students' perception and satisfaction of clickers by conducting in-class surveys in courses taught at McGill University
- Co-authored a peer-reviewed publication based on this study

**Doctoral Student:** McGill University, Montreal, Quebec, Canada Jan. 2005-Oct. 2009

- Published papers in peer-reviewed scientific journals (*e.g.* *Biological Invasions*, *Ecology*, *Ecological Applications*) and presented the results at scientific conferences
- Co-principal investigator on a National Oceanic and Atmospheric Administration (N.O.A.A.) funded grant (~\$200,000)
- Took courses on biometry, geographical information systems, and statistics
- Conducted field experiments, surveys, recruitment studies and computer modelling
- Created, trained, and sustained a 1,000 person volunteer-based monitoring network
- Each year, gave dozens of lectures and hands-on workshops to the scientific community, teachers, students, and the general public
- Each semester I was a teaching assistant for one or two university-level courses

**Research Assistant:** McGill University, Montreal, Quebec, Canada Sep.-Dec. 2004

- Coded a model that optimally used sparse data to forecast the spread of species
- Prepared a successful grant proposal for funding from N.O.A.A.
- Co-authored a peer-reviewed publication in *Ecological Modeling*

**Visiting Scientist:** Charles Darwin Research Institute, Galapagos, Ecuador Feb.-Mar. 2004

- Collected Darwin's finches by mist net then took beak measurements, bite force data, blood samples, banded, and released the individuals
- Conducted ethological studies on the feeding habits of Darwin's finches

**Instructor:** New England Aquarium, Boston, Massachusetts, U.S.A. Jun. 2002-Aug. 2004

- Conducted formal and informal education in the classroom, field sites, and at sea
- Taught curriculum on various topics of environmental and marine sciences

**Paid Intern:** Massachusetts Department of Environmental Boston, Massachusetts, U.S.A. Jun.-Aug. 2001

- Helped implement and expand a state regulation and the Rideshare Program
- Maintained a Microsoft Access database of all businesses in Massachusetts

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## EDUCATION

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- 2016-2017 **Post-doctoral Researcher, Biology**  
University of Hawai'i - Mānoa, Department of Biology, Honolulu, Hawai'i, U.S.A.  
Funding from N.O.A.A. and conducted in collaboration with Conservation International
- 2005-2009 **Doctor of Philosophy, Biology**  
McGill University, Department of Biology, Downtown campus, Montreal, Quebec, Canada
- 2000-2004 **Bachelor of Science, Water Environments and Ecosystems – Biological Focus**  
McGill University, Faculty of Agricultural and Environmental Sciences' School of Environment,  
MacDonald Farm West Island Campus, Montreal, Quebec, Canada

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### SELECTED LIST OF AWARDS

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- 2016 Co-investigator on a N.A.S.A. grant focusing on Hawaiian coral reefs (\$272,911)
- 2012 Principal investigator on a multifaceted, multimillion dollar project (>\$2,000,000)
- 2011 Hingham High School Teacher of the Week Award (February 14 - 20, 2011)
- 2009 G.R.E.A.T. / G.T.C. Travel Award (\$500)
- 2009 Alma Mater Student Travel Grant Award (\$750)
- 2008 Gulf of Maine Visionary Award

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### PEER-REVIEWED PUBLICATIONS

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I have over 10 peer-reviewed publications in scientific journals (*e.g.* Biological Invasions, Ecology, Ecological Applications, Estuaries and Coasts, Marine Biology, PeerJ, PLoS1, River Research and Applications).

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### SELECTED LIST OF ORAL PRESENTATIONS

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I have given hundreds of presentations to various groups including but not limited to: Ecological Society of America, New England Aquarium, N.O.A.A., U.S. Fish and Wildlife Service, Brown University, Cornell University, China's Academy of Sciences, Canadian Society for Ecology and Evolution, Bermuda Institute of Ocean Science, Canadian Conference for Fisheries Research and Society of Canadian Limnologists.

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### SELECTED LIST OF AD HOC REVIEWER OR EXPERT OPINION FOR PUBLICATIONS

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- I have reviewed scientific articles for more than 10 peer-reviewed journals.
- From 2012-2016, I was an editorial board member for a peer-reviewed scientific journal.
- My expertise has been requested by the governments of Australia, Canada, South Africa, and U.S.A.

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### SELECTED LIST OF EXTRACURRICULAR ACTIVITIES AND VOLUNTEER WORK

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- **Volunteer Zoo Keeper:** Honolulu Zoo from 2017-present
- **Lead Docent:** Kōkua Hawai'i Foundation's 'ĀINA In Schools Program from 2015 – 2016
- **Chairperson:** Scientific Advisory Council of Oceans Research from 2011 – 2012

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### SELECTED LIST OF PROFESSIONAL MEMBERSHIPS

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- **Association for the Sciences of Limnology and Oceanography:** Member from 2016 – present
- **American Fisheries Society:** Member from 2015 – 2016

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### SELECTED LIST OF MEDIA COVERAGE

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My research has been covered in The Atlantic, BBC News, BioScience, Boston Globe, CNN, Fox News, The Guardian, The History Channel, The Mail and Guardian, University Affairs, and The Wall Street Journal.

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### SELECTED LIST OF CERTIFICATIONS AND CAPABILITIES

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- I have 7 scuba diving certifications including A.A.U.S. scientific diver.
- I am proficient on a variety of statistical programs and all Microsoft office products.

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**REFERENCES AVAILABLE ON REQUEST**

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