

# Curriculum vitae

## 1. Personal Information

Name: Daniel A. Doherty Weason

### Objective

Be immersed in a scientific field of research that is relevant with the current need of conservation and sustainability while aiding in the expansion of the scientific body of knowledge.

## 2. Education:

- 2008-2009 Adirondack Community College, New York - Year of Liberal Arts study.
- 2009-2013 Stony Brook University - Bachelor of Science in Marine Science.  
Main subjects: Biological Oceanography, Chemical Oceanography, Physical Oceanography, Experimental Marine Biology, Marine Mammal Biology, Marine Mammal and Sea Turtle Rehabilitation, Principles of Fishery Biology and Management.  
Other courses: Ecological Aesthetics, Evolution of Architecture, Urban Agriculture, Ecological Urbanism.
- 2016-2018 Universidad Católica de la Santísima Concepción - Masters degree in Marine Ecology.  
Main subjects: Individual Ecology, Community Ecology, Population Ecology, Invertebrate Reproduction and Life Histories, Biogeography, Introduction to Climate Change.  
Thesis title: Reproductive strategies of the poecilogonous polychaete *Boccardia wellingtonensis*: determining the factors associated with larval development modes in marine invertebrates. Thesis director: Dr. Antonio Brante. Facultad de Ciencias, Universidad Católica de la Santísima Concepción.
- 2019-2022 Max Planck Institute for Marine Microbiology, Bremen – PhD student
- Since 2022 Geomicrobiology Lab, Future Center Microcosm Earth, Marburg – PhD student continued  
Thesis title: Arsenolipid characterization and trophic transfer in high Andes hypersaline lake food webs. Thesis supervisor: Dr. Judith Klatt and Dr. Dirk de Beer

### 3. Research

#### 3.1 Publications

Doherty-Weason D, Oyarzun FX, Vera L, Bascur M, Guzmán F, Silva F, Urzúa Á, Brante A. 2019. Role of the larval feeding morphology and digestive enzyme activity in the early development of the polychaete *Boccardia wellingtonensis*. PeerJ. 7:e6151 <https://doi.org/10.7717/peerj.6151>.

Doherty-Weason D, Oyarzun FX, Vera L, Bascur M, Guzmán F, Silva F, Urzúa Á, Brante A. 2019. Reproductive bioenergetic investment of the poecilogonious polychaete *Boccardia wellingtonensis* and *Boccardia chilensis* from the Southern Pacific coast. Manuscript sent for revision to Marine Ecology and accepted on 21.09.2019.

Figuroa A, Cardenas L, Caicedo M, Oyarzun FX, Doherty-Weason D, Brante A. 2019. Characterization of the expression of microRNAs in the poecilogonous polychaete *B. wellingtonensis*. Short communication sent to revision to Marine Genomics on July 01, 2019.

#### 3.2 Congress presentations

2018 Oral presentation: **Doherty, D.** Brante, A. Vera, L. Bascur, M. Guzmán, F. & Urzúa, A. Actividad enzimática digestiva y morfología estructural alimentaria en larvas del poliqueto *Boccardia wellingtonensis*: determinando factores asociados a los modos de desarrollo larval. XXXVIII Congreso de Ciencias del Mar, Valdivia, 14-18 of May, 2018. **Speaker: Daniel A. Doherty Weason.**

2018 Oral presentation: **Doherty, D.** Brante, A. Vera, L. Bascur, M. Guzmán, F. & Urzúa, A. Inversión bioenergética reproductiva en el poliqueto poecilogonio *Boccardia wellingtonensis*. XXXVIII Congreso de Ciencias del Mar, Valdivia, 14-18 of May, 2018. **Speaker: Daniel A. Doherty Weason.**

2021 Poster titled “Arsenolipid Characterization in extremophiles of Andean Hypersaline lakes” at the 5th It Ma(t)Ters Online Conference, 12-14 April

2021 Poster titled “Oxygenic photosynthesis shapes arsenolipid production and persistence in HAAL” at the M-FED Microbialite Conference in Paris, 13-15 of October

### 5. Certificates, workshops and voluntary work

2006 Universidad Mayor Facultad de Ciencias Silvoagropecuarias Escuela de Ingeniería Forestal – Workshop in Ecology and Environment.

2009 Universidad Católica – Voluntary in census of migratory birds in coastal wetlands of Chile.

2013 Voluntary work in the marine biology laboratory at the Southampton campus of Stony Brook University, NY, USA.

- 2013 Beached whale necropsy with Riverhead Foundation in Long Island, NY, USA.
- 2015 TOEIC English certification at Tronwell institute, Chile.
- 2015 PADI diving advanced level certification, Chile.
- 2017 Taxonomy of Chile's Benthic Polychaetes, workshop at Centro i-mar, Puerto Monnt, Chile.
- 2019 Research assistant in research expedition with the Microsensor Group from Max Planck Insitute for Marine Microbiology in the Argentinian Puna desert.

## 6. Awards

- 2016 Beca arancel completo Universidad Católica de la Santísima Concepción. University's internal scholarship that grants full payment of the program's tuition
- 2016 Beca manutención Universidad Católica de la Santísima Concepción. University's internal scholarship that grants money for basic living expenses.
- 2017 Beca de instructoría Universidad Católica de la Santísima Concepción. University's internal scholarship that allows Master Degree students the possibility to be a Laboratory Instructor and grants them monthly payments.
- 2018 Mención honrosa Noche de Videos, XXXVIII Congreso de Ciencias del Mar, Valdivia, 14-18 de mayo, 2018. Honorary mention for marine biology films, short film available in youtube about polychaete worms: <https://www.youtube.com/watch?v=1b8og6xE2Vs>
- 2020 DAAD Kurzstipenden für doktoranden 2020/2021 project number 57504619D
- 2021 DAAD Forschungsstipenden für doktorandinnen und doktoranden 2021/2022 project number 57556281