

# Brett D. Jameson

Post-Doctoral Scientist  
Bermuda Institute of Ocean Sciences

Curriculum Vitae  
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Updated: March 2023

## EDUCATION

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Ph.D. in Biological Oceanography University of Victoria Victoria, BC, Canada	2017-2023
B.Sc (Hons) in Marine Biology Dalhousie University Halifax, NS, Canada	2014-2016
General Biology (Dalhousie transfer) University of Regina Regina, SK, Canada	2010-2014

## RESEARCH GRANTS & FUNDING

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<b>University of Victoria Fellowship</b> University of Victoria, Faculty of Graduate studies	2018 - 2021
<b>NSERC Canadian Graduate Scholarships – CGS-M</b> National Sciences and Engineering Research Council	2017
<b>CABIOS Summer Research Grant</b> Canadian Associates of the Bermuda Institute of Ocean Sciences	2015

## AWARDS & SCHOLARSHIPS

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<b>M.A. &amp; D.E. Breckenridge Graduate Award</b> University of Victoria, Faculty of Graduate studies	2021
<b>Donald Wagg Graduate Scholarship</b> University of Victoria, Faculty of Graduate studies	2021
<b>Alexander &amp; Helen Stafford MacCarthy Muir Graduate Scholarship</b> University of Victoria, Faculty of Graduate studies	2021
<b>Alfred and Adriana Potvin Graduate Scholarship in Ocean Sciences</b> University of Victoria, Faculty of Graduate studies	2019
<b>University of Victoria Graduate Award</b> University of Victoria, Faculty of Graduate studies	2017 – 2019
<b>Hugh P. Bell Award</b> Dalhousie University, Department of Biology	2016
<b>Hua and Yoh Prize</b> Dalhousie University, Department of Biology	2016
<b>Dalhousie-BIOS Experiential Learning Fund</b> Dalhousie University, Bermuda Institute of Ocean Sciences	2015

## PEER-REVIEWED PUBLICATIONS

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**Jameson, B.D.**, Murdock, S.A., Ji, Q., Stevens, C.J., Grundle, D.S., and Juniper, S.K. (2023). Network analysis of 16S rRNA sequences suggest microbial keystone taxa contribute to marine N<sub>2</sub>O cycling. *Communications Biology* 6:212. <https://doi.org/10.1038/s42003-023-04597-5>

Juniper, F.M.A., **Jameson, B.D.**, Juniper, S.K., and Bell, L.S. (2021). Can whale fall studies inform human forensics? *Science and Justice* 61(5), 459-466. <https://doi.org/10.1016/j.scijus.2021.06.001>

**Jameson, B.D.**, Berg, P., Grundle, D.S., Stevens, C.J., and Juniper, S.K. (2021). Continental margin sediments underlying the NE Pacific oxygen minimum zone are a source of nitrous oxide to the water column. *Limnology and Oceanography Letters* 6(2), 68-76. <https://doi.org/10.1002/lol2.10174>

Qixing, Ji, **Jameson, B.D.**, Juniper, S.K., and Grundle, D.S. (2020). Temporal and vertical oxygen gradients modulate nitrous oxide production in a seasonally anoxic fjord: Saanich Inlet, B.C. *Journal of Geophysical Research: Biogeosciences*, e2020JG005631.

## FORTHCOMING PUBLICATIONS

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**Jameson, B.D.**, Limido, C., Stevens, C.J., Juniper, S.K., and Grundle, D.S. (*In prep*). The N<sub>2</sub>O source or sink status of marine sediments is linked to the abundance and community structure of *nosZ*-harbouring microbes.

Hamme, R.C., **Jameson, B.D.**, Raftery, E., Stevens, C.J., Juniper, S.K., and Casciotti, K. (*In prep*). Dynamic flushing leads to differential reaction rates and microbial community successional patterns in seasonally anoxic Saanich Inlet.

## TECHNICAL REPORTS

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Norgard, T., Du Preez, C., Yakujanaas, J., Clarkson, M., Chaves, L., Rangeley, R., Ciraolo, A., Gale K.S.P., Haggarty, D., Pegg, J., McNicoll, C., Du Preez, S., **Jameson, B.D.**, Leith, M., Juniper, S.K., Elliot, L., St. Germain, C., Whyte, J., Fundis, A., & Kane, R. (2019) Northeast pacific seamounts expedition: exploring Canada's seamounts. *Oceanography* 32 (1), supplement, 150 pp.

## PUBLISHED DATASETS

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**Jameson, B.D.**, Berg, P., Grundle, D.S., Stevens, C.J., and Juniper, S.K. (2021). Data from: Continental margin sediments underlying the NE Pacific oxygen minimum zone are a source of nitrous oxide to the water column. *Scholars Portal Dataverse*. <https://doi.org/10.5683/SP2/P58E1E>.

**Jameson, B.D.** (2023). Community interaction networks. *Zenodo*. <https://doi.org/10.5281/zenodo.7604057>

## PRESENTATIONS

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Bristow, L.A., Murdock, S., Crandall, J. **Jameson, B.D.**, Grundle, D., Thamdrup, B., Stewart, F.J. Distribution and kinetics of N<sub>2</sub>O consumption in a seasonally anoxic fjord. Presentation. ASLO Aquatic Sciences Meeting 2023, Palma de Mallorca, Spain. 04 -09 June, 2023. (upcoming)

Hamme, R.C., Raftery, E., **Jameson, B.D.**, Casciotti, S., Juniper, S.K., & Stevens, C.J. Dynamic flushing leads to differential reaction rates in seasonally anoxic Saanich Inlet. *Presentation*. Canadian Meteorological & Oceanographic Society Congress 2023, St. John's, NL. 28 May – 01 June, 2023. (upcoming)

**Jameson, B.D.**, Murdock, S.M., Ji, Q., Stevens, C.J., Grundle, D.S., & Juniper, S.K. Linking the niche-partitioning of microbial community networks to N<sub>2</sub>O cycling in a dynamic coastal oxygen minimum zone. *Presentation*. Proceedings of the 2022 Ocean Sciences Meeting, Honolulu, HI. 24 February – 04 March, 2022.

**Jameson, B.D.**, Juniper, F., Juniper, S.K., Smith, C. R., & L.S. Bell. Can whale-fall studies inform human forensics? *Poster*. The 16<sup>th</sup> Deep-Sea Biology Symposium, Brest, France. 12 – 17 September, 2021.

**Jameson, B.D.**, Berg, P., Grundle, D.S., Stevens, C.J., and Juniper, S.K. Continental margin sediments underlying the NE Pacific oxygen minimum zone are a source of nitrous oxide to the water column. *Presentation*. Proceedings of the 2020 Ocean Sciences Meeting, San Diego, CA. 16 – 21 February, 2020.

**Jameson, B.D.**, Berg, P., Grundle, D.S., Stevens, C.J., and Juniper, S.K. Quantifying nitrous oxide fluxes in continental margin sediments underlying the NE Pacific oxygen minimum zone: a microsensor approach. *Presentation (1<sup>st</sup> Place Prize)*. SEOS Annual Grad Student Workshop, University of Victoria, Victoria, BC, 15 November 2019.

**Jameson, B.D.**, Gasbarro, R., Ciralo, A., Archambault, P., Tunnicliffe, V., Juniper, S.K., and Snelgrove, P. Hypoxia and cumulative impacts on seafloor ecosystem function. *Presentation*. Canadian Healthy Oceans Network Annual Meeting. Ottawa, ON, Canada. 29 November – 01 December, 2018.

Byl, P.K., **Jameson, B.D.**, Garley, R., Bates, B., and Parsons, R. Marine bacterioplankton succession and subsequent turnover within seasonally hypoxic waters of a subtropical sound; Devil's Hole, Bermuda. *Poster*. Proceedings of the 2018 Ocean Sciences Meeting, Portland, OR. 11 – 16 February, 2018.

**Jameson, B.D.**, Gasbarro, R., Archambault, P., Tunnicliffe, V., Juniper, S.K., and Snelgrove, P. Hypoxia and cumulative impacts on seafloor ecosystem function. *Presentation*. Canadian Healthy Oceans Network Annual Meeting. Ottawa, ON, Canada. 1 – 4 May, 2017.

**Jameson, B.D.**, Finkelstein, A., Pinder, A., and Hochberg, E.J. Effects of increased  $p\text{CO}_2$  on coral primary productivity and light-use efficiency in a flume mesocosm. *Poster*. Dalhousie Cameron Conference, Halifax, NS. 30 January, 2016.

## RESEARCH EXPEDITIONS

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**Ocean Networks Canada: Wiring the Abyss** March 2020  
CCGS *John P. Tully*

**Ocean Networks Canada: Seafloor Geodesy** September – October 2020  
CCGS *John P. Tully*

**2018 Pacific Seamounts Expedition** July 2018  
R/V *Nautilus*

## TEACHING & MENTORSHIP HISTORY

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**Sessional Lecturer** November 2022  
Understanding the Oceans (EOS 350)  
University of Victoria

**Lab Instructor** September 2022 – December 2022  
Biological Oceanography (BIOL 311)  
University of Victoria

**Lab Instructor** September 2021 – December 2021  
Biological Oceanography (BIOL 311)

University of Victoria

**Teaching Assistant**

Food, Diseases, & People (BIOL 359)  
Prokaryotes & Nutrient Cycling (BIOL 438)  
University of Victoria

September 2020 – December 2020

**Teaching Assistant**

Food, Diseases, & People (BIOL 359)  
Prokaryotes & Nutrient Cycling (BIOL 438)  
University of Victoria

September 2020 – December 2020

**Teaching Assistant Consultant**

Learning and Teaching Support and Innovation Division  
University of Victoria

August 2019 – May 2020

**Lab Instructor**

Biological Oceanography (BIOL 311)  
University of Victoria, Department of Biology

September – December 2018

**Lab Instructor**

Oceans and Atmosphere (EOS 120)  
University of Victoria, School of Earth and Ocean Sciences

September 2017 – April 2018

**Project Mentor**

Marine Biology and Oceanographic Research  
Bermuda Institute of Ocean Sciences, Fall Semester

September 2016 – December 2016

**Lab Instructor & Teaching Assistant**

Marine Invertebrate Zoology  
Bermuda Institute of Ocean Sciences, Fall Semester

September 2016 – December 2016

**Teaching Assistant**

Cellular Biology (BIOL 2020)  
Dalhousie University, Department of Biology

September 2015 – May 2016

**WORK EXPERIENCE**

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**Research Assistant**

Microbial Ecology Lab  
Bermuda Institute of Ocean Sciences  
Supervisor: Rachel Parsons

August 2016– December 2016

**Summer Research Intern**

Coral Reef Ecology and Optics Lab  
Bermuda Institute of Ocean Sciences  
Supervisor: Dr. Eric Hochberg

May 2016 – September 2015

**REFEREED JOURNALS**

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Journal of Geophysical Research: Biogeosciences

Oceanologia

Frontiers in Marine Science

**PROFESSIONAL CERTIFICATIONS**

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AAUS Scientific Diver

PADI Rescue Diver

PADI Emergency Oxygen Provision

PADI Advanced Open Water Diver

Emergency First Response