

COLETTE J. FEEHAN

Postdoctoral Associate

Department of Marine and Coastal Sciences
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EDUCATION

2009–2015 **PhD** Biology, Dalhousie University (Dr. Robert Scheibling)
2004–2008 **BSc** Honours, University of Alberta (Drs. Sally Leys, Richard Palmer)

PEER-REVIEWED PUBLICATIONS (* denotes undergraduate author)

- Buchwald R*, **Feehan CJ**, Scheibling RE, Simpson ABG (2015) Low temperature tolerance of a sea urchin pathogen: implications for benthic community dynamics in a warming ocean. *J Exp Mar Biol Ecol* 469:1–9
- Eerkes-Medrano D, **Feehan CJ**, Leys SP (2014) Sponge cell aggregation: checkpoints of development indicate a high level of organismal complexity. *Invert Biol* 134:1–18
- Feehan CJ**, Francis FTY*, Scheibling RE (2014) Harboring the enemy: kelp holdfasts protect juvenile sea urchins from predatory crabs. *Mar Ecol Prog Ser* 514:149–161
- Feehan CJ**, Scheibling RE (2014) Disease as a control of sea urchin populations in Nova Scotian kelp beds. *Mar Ecol Prog Ser* 500:149–158
- Feehan CJ**, Scheibling RE (2014) Effects of sea urchin disease on coastal marine ecosystems. *Mar Biol* 161:1467–1485
- Feehan CJ**, Johnson-Mackinnon J*, Scheibling RE, Lauzon-Guay JS, Simpson AG (2013) Validating the identity of *Paramoeba invadens*, the causative agent of recurrent mass mortality of sea urchins in Nova Scotia, Canada. *Dis Aquat Org* 103:209–227
- Scheibling RE, **Feehan CJ**, Lauzon-Guay JS (2013) Climate change, disease and the dynamics of a kelp-bed ecosystem in Nova Scotia. In: Fernández-Palacios JM, Nascimiento LD, Hernández JC, Clemente S, González A, Diaz-González JP (eds) *Climate Change: perspectives from the Atlantic: past, present and future*. Servicio de Publicaciones de la Universidad de La Laguna, Tenerife, p 361-387
- Feehan CJ**, Scheibling RE, Lauzon-Guay JS (2012) Aggregative feeding behaviour in sea urchins (*Strongylocentrotus droebachiensis*) leads to destructive grazing in a Nova Scotian kelp bed. *Mar Ecol Prog Ser* 444:69–83
- Feehan CJ**, Scheibling RE, Lauzon-Guay JS (2012) An outbreak of sea urchin disease associated with a recent hurricane: support for the “killer storm hypothesis” on a local scale. *J Exp Mar Biol Ecol* 413:159–168
- Scheibling RE, **Feehan CJ**, Lauzon-Guay JS (2010) Disease outbreaks associated with recent hurricanes cause mass mortality of sea urchins in Nova Scotia. *Mar Ecol Prog Ser* 408:109–116

INVITED TALKS

- Feehan CJ** (2015) Increasing frequency of disease drives community dynamics in a kelp bed ecosystem, Rutgers, the State University of New Jersey, 2 Apr
- Feehan CJ** (2015) Increasing frequency of disease drives community dynamics in a kelp bed ecosystem, Dalhousie University, 19 Feb

CONTRIBUTED TALKS

- Feehan CJ**, Scheibling RE, Brown MS (2015) Oceanographic and meteorological processes mediating sea urchin disease outbreaks in Nova Scotia. Benthic Ecology Meeting, Quebec City, QC, 4–7 Mar

- Filbee-Dexter K, **Feehan CJ**, Scheibling RE (2015) Phase shifts from kelp beds to turf or invasive algae in Nova Scotia. Benthic Ecology Meeting, Quebec City, QC, 4–7 Mar
- Feehan CJ**, Scheibling RE (2014) Effects of sea urchin disease on coastal marine ecosystems. Western Society of Naturalists, Tacoma, WA, 13–16 Nov
- Filbee-Dexter K, **Feehan CJ**, Scheibling RE (2014) Phase shifts from kelp beds to turf or invasive algae in Nova Scotia. Western Society of Naturalists, Tacoma, WA, 13–16 Nov
- Buchwald RT*, **Feehan CJ**, Scheibling RE, Simpson AGB (2014) Where is the reservoir of the sea urchin pathogen *Paramoeba invadens*? Temperature tolerance and environmental detection. Atlantic Canada Association of Parasitologists Meeting, Pictou, NS, 26–27 Oct
- Feehan CJ**, Francis FTY*, Scheibling RE (2014) Harboursing the enemy: kelp holdfasts protect juvenile sea urchins from predatory crabs. Patrick Lett Biology Graduate Student Symposium, Dalhousie University, NS, 14 Mar
- Feehan CJ**, Scheibling RE (2013) Disease as a control of sea urchin populations in Nova Scotian kelp beds. Western Society of Naturalists, Oxnard, CA, 7–10 Nov
- Feehan CJ**, Scheibling RE (2013) Disease as a control of sea urchin populations in Nova Scotian kelp beds. Atlantic Canada Coastal & Estuarine Science Society (ACCESS), Lawrencetown, NS, 9–11 May
- Feehan CJ**, Scheibling RE, Lauzon-Guay JS (2012) Validating the identity of *Paramoeba invadens* as the causative agent of recurrent mass mortality of sea urchins in Nova Scotia. Atlantic Canada Coastal & Estuarine Science Society (ACCESS), Dalhousie University, NS, 10–13 May
- Feehan CJ**, Scheibling RE, Lauzon-Guay JS (2012) Controls on sea urchin populations in Nova Scotian kelp beds. Canadian Society of Zoologists, Mount Allison University, NB, 7–11 May
- Feehan CJ**, Scheibling RE, Lauzon-Guay JS (2011) Support for the killer storm hypothesis: An outbreak of sea urchin disease associated with a recent hurricane. Patrick Lett Biology Graduate Student Symposium, Dalhousie University, NS, 4 May
- Feehan, CJ**, Scheibling RE, Lauzon-Guay JS (2011) Support for the killer storm hypothesis: An outbreak of sea urchin disease associated with a recent hurricane. Benthic Ecology Meeting, Mobile, AL, 16–20 Mar
- Feehan CJ**, Scheibling RE, Lauzon-Guay JS (2010) Aggregative feeding behaviour in sea urchins (*Strongylocentrotus droebachiensis*) leading to gap formation and destructive grazing in a kelp bed. Patrick Lett Biology Graduate Student Symposium, Dalhousie University, NS, 6 May
- Feehan CJ**, Scheibling RE, Lauzon-Guay JS (2010) Aggregative feeding behaviour in sea urchins (*Strongylocentrotus droebachiensis*) leading to gap formation and destructive grazing in a kelp bed. Benthic Ecology Meeting, University of North Carolina, Wilmington, NC, 10–13 Mar

SCHOLARSHIPS AND AWARDS

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| 2014 | Western Society of Naturalists Travel Award (\$350) |
| 2013–2015 | NSERC Canada Graduate Scholarship (PhD) (\$68,000) |
| 2013–2014 | Dalhousie University President’s Award (tuition) |
| 2013 | Western Society of Naturalists Travel Award (\$350) |
| 2012–2013 | Dalhousie Research Scholarship (PhD) (\$20,250) |
| 2012 | ACCESS Best Presentation Award (\$100) |
| 2011–2012 | Dalhousie Research Scholarship (MSc) (\$14,400) |
| 2010–2011 | NSERC Canada Graduate Scholarship (MSc) (\$17,500) |
| 2009 | NSERC Undergraduate Student Research Award (\$6,000) |
| 2007 | Bamfield Marine Sciences Centre Summer Scholarship (\$300) |
| 2006–2007 | Jason Lang Scholarship (declined due to semester abroad in Ireland) |
| 2006 | NSERC Undergraduate Student Research Award (\$6,000) |
| 2005–2006 | Jason Lang Scholarship (\$1,000) |
| 2004–2005 | Alexander Rutherford Scholarship (\$2,500) |

PROFESSIONAL AND TEACHING EXPERIENCE

- 2013–2014 Supervisor of Marine Biology Honours student (Dalhousie University)
- 2009–2015 Supervisor of 6 Undergraduate Co-op students (Dalhousie University)
- 2009–2015 Teaching assistant and guest lecturer in: *Introductory Ecology*, *Invertebrate Zoology*, *Animal Diversity* (undergraduate), and *Analysis of Biological Data* (graduate) courses (Dalhousie University)
- 2008 Undergraduate Researcher (University of Alberta)
- 2008 Public Education Volunteer (Bamfield Marine Sciences Centre)
- 2006 Undergraduate Research Assistant (University of Alberta)

ACADEMIC SERVICE

- 2015 Reviewer for the National Science Foundation (NSF)
- 2010–2015 Reviewer for *ISME J*, *JEMBE*, *Mar Ecol Prog Ser*, *Bull Mar Sci*, *Mar Biol*
- 2007–2008 Vice President of *Biology, Physiology, Evolution and Ecology Students Association* (University of Alberta)

CERTIFICATIONS

- 2015 AAUS Scientific Diver (300+ dives)
- 2015 DAN Diving First Aid for Professional Divers
- 2009 CAUS Scientific Diver
- 2009 Pleasure Craft Operator License
- 2009 PADI Open Water Diver

MEDIA

- 2015 Article featured on oceanbites.org: <http://oceanbites.org/sea-urchins-and-their-pathogens-a-relationship-thats-heating-up/> (11 May)
- 2012 Interviewed by Canada Broadcasting Corporation (CBC) News (14 Jun)