

Cassidy C. D'Aloia

CONTACT INFORMATION	Ecology & Evolutionary Biology University of Toronto 25 Willcocks Street Toronto, ON M5S 3B2	<i>website:</i> cassidydaloia.com <i>email:</i> cassidy.daloia@utoronto.ca <i>phone:</i> 647-913-7922
INTERESTS	Marine biology; molecular ecology; conservation biology; theoretical ecology	
CITIZENSHIP	Canadian Permanent Resident; American Citizen	
EDUCATION	Boston University , PhD in Biology, 2015 <i>Dissertation:</i> Patterns, causes, and consequences of connectivity within a coral reef fish metapopulation <i>Advisor:</i> Peter Buston Middlebury College , BA in Biology, 2010 <i>summa cum laude</i> <i>Thesis:</i> Estimating demographic changes in sea lamprey in Lake Champlain <i>Advisors:</i> Stephen Trombulak; Sallie Sheldon; William Ardren	
ACADEMIC APPOINTMENTS	Postdoctoral Fellow , University of Toronto <i>Dates:</i> 2015 – 2016; 2018 – present <i>Advisor:</i> Marie-Josée Fortin Guest Investigator , Woods Hole Oceanographic Institution <i>Dates:</i> 2018 – present <i>Collaborator:</i> Michael Neubert Postdoctoral Scholar , Woods Hole Oceanographic Institution <i>Dates:</i> 2016 – 2018 <i>Advisor:</i> Michael Neubert	
FELLOWSHIPS, AWARDS & HONORS	2016 – Belamarich Award for Outstanding PhD in Biology, Boston University 2016 – Postdoctoral Scholar Award, Woods Hole Oceanographic Institution 2016 – Peter Buck Postdoctoral Fellowship, Smithsonian Institution, <i>declined offer</i> 2014 – College of Arts & Sciences Outstanding Teaching Award, Boston University 2012 – Visiting Fellowship in Ecology & Evolutionary Biology, Cornell University 2011 – National Science Foundation Graduate Research Fellowship 2011 – Clare Boothe Luce Foundation Graduate Fellowship, <i>declined offer</i> 2010 – Dean's Fellowship, Boston University 2010 – Phi Beta Kappa, Middlebury College 2010 – Janet C. Curry Award in Biological Sciences, Middlebury College	

16. **D'Aloia CC**, Xuereb A[†], Fortin M-J, Bogdanowicz SM, Buston PM (in revision) Limited dispersal explains the spatial distribution of siblings in a reef fish population. *Marine Ecology Progress Series*.

15. **D'Aloia CC***, Naujokaitis-Lewis I*, Blackford CB[†], Chu C, Curtis JMR, Darling ES, Guichard F, Leroux S, Martensen A, Rayfield B, Sunday J, Xuereb A[†], Fortin M-J (in review) Coupled networks of permanent and dynamic protected areas to conserve biodiversity in a changing climate. *Biological Conservation*.

*Co-first authorship

14. Shaw AK, **D'Aloia CC**, Buston PM (in revision) The evolution of marine larval dispersal kernels in spatially structured habitats: analytical models, individual-based simulations, and comparisons with empirical estimates. *The American Naturalist*.

13. Lesneski K,[†] **D'Aloia CC**, Fortin M-J, Buston PM (in review) Disentangling the spatial distributions of a sponge-dwelling fish and its host sponge. *Marine Biology*.

12. **D'Aloia CC**, Neubert MG (in press) The formation of marine kin structure: effects of dispersal, larval cohesion, and variable reproductive success. *Ecology*.

11. Majoris JE, **D'Aloia CC**, Francis RK[‡], Buston PM (2018) [Differential persistence favors habitat preferences that determine the distribution of a reef fish](#). *Behavioral Ecology* 29: 429–439.

10. **D'Aloia CC**, Daigle RM, Côté IM, Curtis JMR, Guichard F, Fortin M-J (2017) [A multiple-species framework for integrating movement processes across life stages into the design of marine protected areas](#). *Biological Conservation* 216: 93–100.

9. **D'Aloia CC**, Bogdanowicz SM, Harrison RG, Buston PM (2017) [Cryptic genetic diversity and spatial patterns of admixture within Belizean marine reserves](#). *Conservation Genetics* 18: 211–223.

8. Schmiege PFP[‡], **D'Aloia CC**, Buston PM (2017) [Anemonefish personalities influence interspecific interactions with host sea anemones](#). *Marine Biology* 164: 24.

7. Selkoe KA*, **D'Aloia CC***, Crandall ED, Iacchei M, Liggins L, Puritz JB, von der Heyden S, Toonen RJ (2016) [A decade of seascape genetics: contributions to basic and applied marine connectivity](#). *Marine Ecology Progress Series* 554: 1–19. (Feature Article) *Co-first authorship

6. **D'Aloia CC**, Bogdanowicz SM, Francis RK[‡], Majoris JE, Harrison RG, Buston PM (2015) [Patterns, causes, and consequences of marine larval dispersal](#). *Proceedings of the National Academy of Sciences, USA* 112: 13940–13945.

5. **D'Aloia CC**, Azodi CB[‡], Sheldon SP, Trombulak SC, Ardren WR (2015) [Genetic models reveal historical patterns of sea lamprey population fluctuations within Lake Champlain](#). *PeerJ* 3: e1369.

4. **D'Aloia CC**, Bogdanowicz SM, Harrison RG, Buston PM (2014) [Seascape continuity plays an important role in determining patterns of spatial genetic structure in a coral reef fish. *Molecular Ecology* 23: 2902–2913.](#) (Cover photo)
3. **D'Aloia CC**, Bogdanowicz SM, Majoris JE, Harrison RG, Buston PM (2013) [Self-recruitment in a Caribbean reef fish: a method for approximating dispersal kernels accounting for seascape. *Molecular Ecology* 22: 2563–2572.](#)
2. Buston PM, **D'Aloia CC** (2013) [Marine Ecology: Reaping the benefits of local dispersal. *Current Biology* 23: R351–R353.](#)
1. **D'Aloia CC**, Majoris JE, Buston PM (2011) [Predictors of the distribution and abundance of a tube sponge and its resident goby. *Coral Reefs* 30: 777–786.](#)

MANUSCRIPTS
IN PREP

D'Aloia CC, Bogdanowicz SM, Andrés J, McCune AR, Harrison RG, Buston PM. Hierarchical population genomics: a comparison of ddRADseq and next-gen microsatellite sequencing. TARGET: *Molecular Ecology*.

Xuereb A[†], **D'Aloia CC**, Daigle RM, Andrello M, Dalongeville A[†], Manel S, Mouillot D, Guichard F, Côté IM, Curtis JMR, Bernatchez L, Fortin M-J. Incorporating evolutionary perspectives and genomic data into marine reserve network design. (invited book chapter).

TEACHING
EXPERIENCE

Courses Taught

Biological Oceanography (Woods Hole PEP), Instructor, Summer 2017
Student Evaluations: 4.9/5.0

Marine Biology (Boston University), Seminar Instructor, Spring 2014
Student Evaluations (four sections): 4.8/5.0, 4.9/5.0, 5.0/5.0, 5.0/5.0

Coral Reef Dynamics (Boston University), Teaching Fellow, Fall 2013
Student Evaluations: 5.0/5.0

Vertebrate Natural History (Middlebury College), Lab Teaching Assistant, Fall 2009

Ecology and Evolution (Middlebury College), Lab Teaching Assistant, 2007 – 2009

Full Guest Lectures in these Courses

Theoretical Evolutionary Ecology; Evolutionary Ecology; Marine Biology; Vertebrate Biology; Ichthyology

Teacher Training Courses

2014 – Center for the Integration of Research, Teaching & Learning :

“Preparing STEM Faculty to Meet the Needs of Culturally & Linguistically Diverse Populations”

2013 – Boston University: “Pedagogy for Teaching Fellows in Biology”

FUNDING	<p>2016 – WHOI Postdoctoral Scholar Award (\$93,000)</p> <p>2016 – Smithsonian Peter Buck Postdoctoral Fellowship (\$103,922), <i>declined</i></p> <p>2016 – Canadian Institute of Ecology & Evolution Working Group (\$11,500)</p> <p>2014 – Boston University GWISE Professional Development Grant (\$500)</p> <p>2014 – Volkswagen Foundation Travel Award in Landscape Genetics (\$650)</p> <p>2013 – Women Diver’s Hall of Fame Advanced Dive Training Grant (\$500)</p> <p>2011 – NSF Graduate Research Fellowship (\$94,000 + tuition)</p> <p>2011 – Clare Boothe Luce Foundation Fellowship (\$42,600 + tuition), <i>declined</i></p> <p>2010 – Dean’s Graduate Fellowship, Boston University (\$19,600 + tuition)</p> <p>2011 – Warren McLeod Summer Fellowship (\$9,400)</p> <p>2011 – IDEA WILD Conservation Research Grant (\$425)</p> <p>2009 – Lake Champlain Research Consortium Student Research Grant (\$2,500)</p> <p>2009 – Middlebury College Senior Work Fund (\$350)</p>
WORKING GROUPS & WORKSHOPS	<p>2018 – Canadian Institute of Ecology & Evolution Working Group (<i>participant</i>) “A meta-ecosystem approach to the protection of aquatic diversity and ecosystem services”</p> <p>2016 – Canadian Institute of Ecology & Evolution Working Group (<i>Co-PI</i>) “Canadian protected areas in a changing climate: a cross-ecosystem approach to designing effective networks of protected areas”</p> <p>2016 – Banff International Research Station Workshop (<i>participant</i>) “Integrodifference Equations in Ecology”</p>
INVITED SEMINARS	<p>2017 – Northeastern University Marine Science Center Seminar Nahant, MA</p> <p>2017 – Woods Hole Oceanographic Institution Biology Seminar Falmouth, MA</p> <p>2016 – Bridgewater State University Biology Seminar Bridgewater, MA</p> <p>2016 – University of Guelph Integrative Biology Seminar Guelph, ON</p> <p>2015 – Fisheries & Oceans Canada Pacific Biological Station Seminar Nanaimo, BC</p> <p>2015 – Simon Fraser University Earth to Ocean Seminar Burnaby, BC</p> <p>2015 – University of Toronto St. George EEB Seminar Toronto, ON</p> <p>2015 – University of Toronto Scarborough Biology Seminar Scarborough, ON</p> <p>2014 – Woods Hole Oceanographic Institution Biology Seminar Falmouth, MA</p>
CONFERENCE PRESENTATIONS	<p>2018 – Canadian Society for Ecology & Evolution Meeting Guelph, ON</p> <p>2018 – North American Congress for Conservation Biology Toronto, ON (<i>invited</i>)</p> <p>2017 – International Larval Biology Symposium Honolulu, HI (<i>invited plenary</i>)</p> <p>2016 – International Marine Conservation Congress St. John’s, NL</p>

2016 – International Coral Reef Symposium | Honolulu, HI
2015 – Larval Fish Conference Annual Meeting | Vienna, Austria (*invited*)
2015 – International Association of Landscape Ecology | Portland, OR (*invited*)
2014 – Ecological Society of America Annual Meeting | Sacramento, CA
2014 – Landscape Genetics Symposium | Göttingen, Germany
2010 – Lake Champlain Research Consortium Student Symposium | Plattsburgh, NY
2010 – Lake Champlain Fisheries Technical Committee | Grand Isle, VT

OUTREACH &
SERVICE

Mentoring & Advising

Committees:

2015 – PhD Committee Member, Karina Scavo (Boston University)

Mentoring Programs and Panel Participation:

2015 – Boston University Biology Department Teaching Fellow **Peer Mentor**

2014 - 2015 – Boston University Graduate Women in Science **Mentor**

2013 - 2015 – Boston University Research Opportunity for Undergraduates **Mentor**

2014 – Boston University New Teaching Fellow Orientation **Panelist**

2013 – Boston University Workshop on Winning Fellowships **Panelist**

2012 - 2013 – Science Club for Girls **Internship Supervisor**

2010 – Science Club For Girls **Mentor Scientist**

Graduate Student Teaching Fellow Mentees:

2015 – James Garner, Adrienne Lohe, David Minkof, Karina Scavo (Boston University)

Undergraduate Independent Research Mentees:

2014 - 2016 – Philip Schmiede (Boston University)

2014 - 2015 – Athbah Almuhaire (Boston University)

2013 - 2015 – Robin Francis (University of California Santa Barbara)

Undergraduate Field Assistants:

2013 - 2014 – Diana Acosta (Boston University)

2013 - 2014 – Derek Scolaro (Boston University)

High School Interns:

2012 - 2013 – Netaya Strothers (Science Club for Girls)

2012 – 2013 – Zainab Salejwala (Science Club for Girls)

Reviewing

Grant Reviews: 2016 – 2018

National Science Foundation (x2)

BioDivERsA (x1)

Journal Reviews: 2014 – 2018

Axios Review (x1)

Coral Reefs (x2)

Limnology & Oceanography (x1)

Marine Ecology Progress Series (x2)

Molecular Ecology (x6)

PLOS ONE (x1)

Trans. American Fisheries Society (x1)

Biology Letters (x1)

ICES Journal of Marine Science (x1)

Marine Ecology (x1)

Methods in Ecology & Evolution (x2)

Oikos (x1)

Proceedings Royal Society Series B (x2)

OTHER INFORMATION

Languages: Spanish (highly proficient)

Software: R, NetLogo, MATLAB, ArcGIS, L^AT_EX

SCUBA: Dive Master (SSI), Dive Leader (American Academy of Underwater Sciences)

Field Work: Belize: (May-June 2014; May-August 2013; August 2012; May 2012; May-August 2011; July-August 2010)

Last Updated: July 24, 2018