

Katie Pagnucco

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Ecologist (MSc., PhD) with a strong interest in sharing enthusiasm for science through a career in post-secondary education

EDUCATION

Postdoctoral Researcher (Ecology)

Sep. 2015 – Present

Université du Québec à Montréal

Supervisor: Dr. Beatrix Beisner

- **Selected Awards:** FQRNT Bourses de recherche postdoctorale (2015-2017)

PhD (Ecology)

Sep. 2010 – Dec. 2015

McGill University, Montréal, Canada

Supervisor: Dr. Anthony Ricciardi

- **Selected Awards:** Writing Year Award (2014), Vineberg Fellowship (2013), NSERC CGS-D2 (2011-2013), QCBS Excellence Award (2012), Provost Graduate Scholarship (2010)

M.Sc. (Ecology)

Sep. 2007 – Jul. 2010

University of Alberta, Edmonton, Canada

Supervisors: Drs. Cynthia Paszkowski and Garry Scrimgeour

- **Selected Awards:** Queen Elizabeth II Graduate Scholarship (2009), Gov. of Alberta Graduate Research Scholarship (2009), NSERC PGS-M (2007-2009), Walter H. Johns Graduate Fellowship (2007-2009)

B.Sc. (Honors Specialization: Ecology and Evolution, Minor: Philosophy) Sep. 2003 – May 2007

University of Western Ontario, London, Canada

Supervisor: Dr. Liana Zanette

- **Selected Awards:** NSERC USRA (2007), Excellence in Leadership Award (2005-2007), INCO Excellence Award (2003-2007), Western's Continuing Scholarship (2003-2007)

PUBLICATIONS

- **Pagnucco, K.S.**, Y. Remmal, A. Ricciardi. 2015. An invasive benthic fish magnifies trophic cascades and alters pelagic communities in an experimental freshwater system. *Freshwater Science*. In press.
- **Pagnucco, K.S.**, and A. Ricciardi. 2015. Disentangling the influence of abiotic variables and a non-native predator on freshwater community structure. *Ecosphere*. In press.
- **Pagnucco, K.S.**, G. Maynard, S. Fera, N. Yan, T. Nalepa, A. Ricciardi. 2015. Aquatic invasive species as drivers of change in the Great Lakes-St. Lawrence River Basin. *Journal of Great Lakes Research* 41 (Suppl. 1): 96-107.
- **Pagnucco, K.S.**, C. Paszkowski, G. Scrimgeour. 2012. Characterizing movement patterns and spatio-temporal use of under-road tunnels by long-toed salamanders in Waterton Lakes National Park, Canada. *Copeia* 2012(2): 331-340.
- **Pagnucco, K.S.**, C. Paszkowski, G. Scrimgeour. 2011. Using cameras to monitor amphibian tunnel use: an informative, cost-efficient technique. *Herpetological Conservation and Biology* 6(2): 277-286.
- **Pagnucco, K.S.**, C. Paszkowski, G. Scrimgeour. 2011. Wolf in sheep's clothing: Effects of predation by small-bodied fish on survival and behaviour of salamander larvae. *Écoscience* 18(1):70-78.
- **Pagnucco, K.S.**, L. Zanette, M. Clinchy, and M. Leonard. 2008. Sheep in wolf's clothing: host nestling vocalizations resemble their cowbird competitor's. *Proceedings of the Royal Society B*. 275(1638): 1061-1065.

TEACHING EXPERIENCE

Course Lecturer – Environment 200 : The Global Environment

Sept. – Dec. 2015

McGill University, School of Environment

- Developed course notes, lecture slides, assignments, midterms
- Utilized multiple pedagogical techniques in lecture, including Socratic method, and using TopHat in order to evaluate students' understanding of course material
- Held office hours to consult with students on course material
- Marked midterms

Biology Instructor

Feb. – May 2015

Champlain College Saint-Lambert, Department of Biology

- Developed course notes, lecture slides, assignments, tests, and group activities for the lecture sections
- Utilized a number of different pedagogical techniques in lecture, including group work, Socratic method, and having students actively participate in solution solving
- Marked all of the class work, essays and tests given to the class
- Developed quizzes and assignments in the laboratory sections
- Supervised and instructed students in proper use of microscopes and other lab equipment
- Marked all lab assignments and quizzes
- Courses taught: General Biology I, General Biology II, Microbiology and Immunology

Teaching Assistant – Biology 540: Ecology of Species Invasions Jan. – Apr. 2012, 2013, 2014

McGill University, Department of Biology (25 students)

- Sole TA for the course, designed for upper year undergraduate and graduate students
- Marked weekly assignments, midterm exams, and presentations
- Held office hours to consult with students on major research projects
- Attended all lectures and chaired student seminar day

Guest Lecturer – Biology 540: Ecology of Species Invasions

18 Mar. 2014

McGill University, Department of Biology (25 students)

- Invited by Professor Ricciardi to deliver a 50-minute lecture on the threat of Asian carp
- Engaged students by having them assume the role of conservation scientists, and getting them to think of how to address the issue of a major ecological threat, while also being sensitive to the economic needs of their fellow citizens.

Invited Lecturer – Management of Biological Invasions

16 Feb. 2014

Muscat, Oman (30 participants)

- Invited (along with 5 other graduate students) by organizers of the Marine Invasive Species Conference to give a 20-minute lecture on invasive species concepts to land managers and government officials, including the Minister of Environment and Climate Affairs.

Teaching Assistant – Biology 206: Methods in Biology of Organisms

Sep. - Dec. 2013

McGill University, Department of Biology (200 students)

- Instructed 6 laboratories to two 30 student sections
- Participated in weekly meetings and developed cohesive rubrics with other TAs (6 total)
- Held voluntary office hours to help students with difficult concepts beyond classroom time
- Provided a tutorial after class hours on presentation techniques to help students prepare
- Taught students basic statistical techniques using Excel, including chi-squared tests
- Marked laboratory assignments, major independent research assignments, and presentations

Supervisor for Undergraduate Research Project

Sep. 2012 – Apr. 2013

McGill University, Department of Biology

- Supervised undergraduate student when collecting field samples for research project
- Provided guidance to student on proper statistical techniques to analyze data using SPSS
- Assigned final grade on report in collaboration with Dr. Anthony Ricciardi
- Worked with student on developing a manuscript from the project to be submitted for peer-reviewed publication (in revision)

Supervisor for Field Research Assistants**May – Aug. 2008, 2009, 2011, 2012, 2013**

McGill University, Department of Biology (8 students)

- Instructed and supervised undergraduate student field research assistants on proper aquatic sampling techniques, including collecting benthic sediments, using seine nets for fish collection, collecting and preserving specimens, and identifying invertebrates using microscopic techniques.

Teaching Assistant – Biology 112: Cell and Molecular Biology**Jan. – Apr. 2011**

McGill University, Department of Biology (~600 students)

- Instructed 12 weekly laboratories to one 30 student section
- Developed lecture slides for 15 minute pre-lab talks each week
- Answered student questions pertaining to lab material
- Invigilated midterm and final exams
- Marked laboratory assignments and presentations

Teaching Assistant – Biology 111: Principles: Organismal Biology**Sep. – Dec. 2010**

McGill University, Department of Biology (~600 students)

- Instructed 12 weekly laboratories to two 30 student sections
- Developed lecture slides for 15 minute pre-lab talks each week
- Answered student questions pertaining to lab material
- Invigilated midterm and final exams
- Delivered and marked lab exams
- Marked laboratory assignments and presentations

Academic Programmer**Sep. 2005 – May 2007**

University of Western Ontario, Department of Housing and Ancillary Services (~1200 students)

- Live-in residence staff position, dedicated specifically to help all residents in the building with everything related to academic needs
- Organized programs, offered workshops, met with students one-on-one about academic-related questions and concerns, and connected students with campus resources

COMMUNITY INVOLVEMENT

- Councilor and AGSEM representative for the Biology Graduate Student Association, McGill University (2012-2014)
- Student, performer, and volunteer at the Montréal Improv Theater (2012-Present)
- Conference Organizer, CIB-CAISN Joint Workshop, Stellenbosch University, South Africa (2013)
- Science Consultant, Éclairs de Science, Montréal Science Centre (2012-2013)
- Vice President, Biology Graduate Students Association, McGill University (2011-2012)
- Secretary, Biology Graduate Students Association, McGill University (2010-2011)
- Graduate Student Coordinator and Role Model, WISEST, University of Alberta (2008-2010)
- Science Fair Judge, Edmonton Regional Science Fair (2008-2009)
- Volunteer, “Let’s Talk Science,” University of Alberta (2008-2009)

SELECTED CONFERENCE PRESENTATIONS

- **Pagnucco, K.S.**, and A. Ricciardi. *Biotic and abiotic factors affecting impacts of non-native fishes: a global meta-analysis*. 2015 Aquatic Sciences Meeting (ASLO), Granada, Spain. February 23, 2015.
- **Pagnucco, K.S.**, M. Granados, and A. Ricciardi. *Consequences of consumer origin and omnivory on stability in an experimental food-web*. 99th Annual Meeting of the Ecological Society of America (ESA), Sacramento, CA, USA. August 12, 2014.
- **Pagnucco, K.S.**, M. Granados, and A. Ricciardi. *Consequences of consumer origin and omnivory on stability in an experimental food-web*. Annual General Meeting of the Canadian Aquatic Invasive Species Network II. April 29, 2014.

- **Pagnucco, K.S.**, and A. Ricciardi. *Beyond the benthos: Non-native benthic predators increase strength of trophic cascades, and indirectly affect pelagic communities in experimental freshwater communities*. Marine Invasive Species: Management of Ballast Water and Other Vectors, Muscat, Oman. February 2014.
- **Pagnucco, K.S.**, and A. Ricciardi. *Are freshwater invasions fundamentally different from those in terrestrial and marine ecosystems?* CIB-CAISN meeting, Stellenbosch, South Africa. November 27, 2013.
- **Pagnucco, K.S.**, and A. Ricciardi. *In the driver's seat? Disentangling the influence of habitat degradation and round goby invasion on the structure and function of benthic communities in the St. Lawrence River*. 18th International Conference on Aquatic Invasive Species (ICAIS), Niagara Falls, ON. April 23, 2013.
- **Pagnucco, K.S.**, and A. Ricciardi. *In the driver's seat? Disentangling the influence of habitat disturbance and an invasive fish on macroinvertebrate communities in the St. Lawrence River*. 97th Annual Meeting of the Ecological Society of America (ESA), Portland, OR, USA. August 9, 2012.
- **Pagnucco, K.S.**, and A. Ricciardi. *In the driver's seat? Disentangling the influence of abiotic factors and round gobies (*Neogobius melanostomus*) on the composition of macroinvertebrate communities in the St. Lawrence River*. 55th Annual Conference of the International Association for Great Lakes Research (IAGLR), Cornwall, ON. May 16, 2012.
- **Pagnucco, K.S.**, C. Paszkowski, and G. Scrimgeour. *Conserving long-toed salamanders using under-road tunnels*. 19th Annual meeting of the Canadian Amphibian and Reptile Conservation Network (CARCNET), Saskatoon, SK. September 27, 2009.
- Smith, C., **K.S. Pagnucco**, B. Johnston, C. Paszkowski, and G. Scrimgeour. *Using specialized tunnels to reduce highway mortality of amphibians*. 2009 International Conference on Ecology and Transportation, Duluth, MN. September 15, 2009.