
BRECHANN MCGOEY

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Education

Doctoral candidate in Ecology and Evolutionary Biology
University of Toronto, September 2011-present

Master of Science in Ecology and Evolutionary Biology
University of Toronto, September 2007-August 2009
Thesis: The Effects of Competitive Context on Shade Avoidance Syndrome Evolution
in *Impatiens capensis*

Bachelor of Science in Biology, Graduated with Distinction
University of Guelph, September 2003-April 2007

Scholarships

Zimmerman and Weis Scholarship in Field Biology. \$9500. University of Toronto, 2014-2015.

NSERC CGSD. \$105 000. University of Toronto, 2011-2014.

NSERC CGSM. \$17 500. University of Toronto, 2008 -2009.

Helen Sawyer Hogg Graduate Admission Award. \$5000. University of Toronto, 2007.

Entrance Scholarship. \$1000. University of Guelph, 2003-2004.

Awards

Terrestrial Invasive Plants II Conference. Best Student Talk Award. \$250. University of Toronto, Mississauga, 2014.

Centre for Global Change Science Graduate Student Research Award. \$1310.
University of Toronto, 2014.

Outstanding Teaching Assistant Award. University of Toronto, 2008, 2011.

Professional Experience

Research Assistant, Royal Ontario Museum, Summer 2011

Science Intern, Royal Botanical Gardens, January 2010 to March 2011

Forestry Technician Assistant, Ontario Ministry of Natural Resources, Summer 2007

Teaching Experience

2016 Teaching Assistant, EEB 204-Diversity of Life, University of Toronto

2014 Teaching Assistant & Guest Lecturer, EEB 214-Evolution and Adaptation,
University of Toronto

2012, 2014 Laboratory Teaching Assistant, BIO 220-From Genomes to Ecosystems,
University of Toronto

2013, 2015 Teaching Assistant, EEB 324-Evolutionary Ecology, University of Toronto
2011 Laboratory Teaching Assistant, BIO 120-Adaptation and Biodiversity, University of Toronto
2007-2009 Laboratory Teaching Assistant, BIO 150- Organisms in their Environment, University of Toronto

Refereed Papers

McGoey, BV, Janik, R and Stinchcombe, JR. 2016. Individual chambers for controlling crosses in wind pollinated plants. *Methods in Ecology and Evolution*. doi: 10.1111/2041-210X.12722.

Stock, AJ, McGoey, BV and Stinchcombe, JR. 2015. Water availability as an agent of selection in introduced populations of *Arabidopsis thaliana*: impacts on flowering time evolution. *PeerJ*, 3, e898. <http://doi.org/10.7717/peerj.898>.

McGoey BV, Chau K and Dickinson, TA. 2014. Stomata size in relation to ploidy level in North American hawthorns (*Crataegus*, Rosaceae). *Madroño* 61(2): 177-193.

Stinchcombe JR, Izem R, Heschel MS, McGoey BV and Schmitt J. 2010. Across-environment genetic correlations and the frequency of selective environments shape the evolutionary dynamics of growth rate in *Impatiens capensis*. *Evolution* 64(10): 2887-2903.

McGoey BV and Stinchcombe JR. 2009. Interspecific competition alters natural selection on shade avoidance phenotypes in *Impatiens capensis*. *New Phytologist* 183: 880-891.

Non-Refereed Publications and Reports

Galbraith, D. A., Iwanycki, N. E., McGoey, B. V., McGregor, J., Pringle, J. S., Rothfels, C., and Smith, T. 2011. The evolving role of botanical gardens and natural areas: A floristic case study from Royal Botanical Gardens, Canada. *Plant Diversity and Resources*, 33(1), 123-131.

McGoey BV. 2010. Spring forward, fall back. *Paradise Found* 2(4): 18-20.

Iwanycki NE, McGoey BV and Harrison K. 2010. 2010 Population assessment of the few-flowered club-rush (*Trichophorum planifolium*) at Cootes Paradise, Royal Botanical Gardens. Royal Botanical Gardens, Internal Report.

McGoey BV and Iwanycki NE. 2010. *Ex situ* conservation strategy for *Trichophorum planifolium*. Royal Botanical Gardens, Internal report.

McGoey BV and Schwan, T. 2007. Six Nations woodlot map editing project. Ontario Ministry of Natural Resources, Internal Report.

Conference and Departmental Presentations

McGoey, BV. 2016. Life history timing. BREWS talks, Ecology and Evolutionary department, University of Toronto.

McGoey, BV. 2014. Estimating adaptive potential in native and introduced ragweed. Terrestrial Invasive Plants II. Mississauga, Canada.

McGoey, BV. 2014. Estimating adaptive potential in native and introduced ragweed. Canadian Society for Ecology and Evolution Conference. Montreal, Canada.

McGoey, BV and Dickinson TA. 2012. Stomata size and geographic range in relation to ploidy levels in North American *Crataegus*. Evolution Congress, Ottawa, Canada.

Iwanycki NE, Pringle JS and McGoey BV. 2010. Goldenrods and asters of Ontario. Royal Botanical Gardens field course. Burlington, Canada.

McGoey, Brechann. 2009. Made in the shade: Competitive context affects shade avoidance traits in *Impatiens capensis*. Canadian Society for Ecology and Evolution Conference. Halifax, Canada.

McGoey, Brechann. 2009. Making your graphs and graphics great. Internal seminar, EEB. Toronto, Canada

McGoey, Brechann. 2008. Chronic exposure to hypoxia causes tachycardia in rainbow trout embryos. Ontario Ecology and Ethology Conference. Guelph, Canada.

University and Community Service

Graduate Affairs committee, 2014

Atwood colloquium organizing team, 2013

Treasurer, EGSA, 2012-2013.

Atwood committee co-chair, 2011-2012.

Media design for Compass drop-in centre and food bank, 2003-present

Department of Ecology and Evolutionary Biology CUPE steward, 2008-2009

Student organizer, Ecology and Evolutionary Biology Departmental Colloquium, 2008