

Philippe Desjardins-Proulx

CONTACT	<p>Graduate (Ph.D.) student Department of Biology, Université du Québec à Montréal Quebec Center for Biodiversity Science, McGill University, Canada. <i>Phone:</i> +1-418-732-9877 <i>E-mail:</i> philippe.d.proulx@gmail.com <i>E-mail (alt.):</i> p.desjardinsproulx@ymail.com <i>WWW:</i> http://phdp.github.com/ <i>GitHub:</i> https://github.com/PhDP/ <i>BitBucket:</i> https://bitbucket.org/PhDP/</p>
CITIZENSHIP	Canada
LANGUAGES	English & French, basic knowledge of Japanese.
PROFESSIONAL INTERESTS	Artificial Intelligence; Machine Learning (artificial neural networks, probabilistic graphical models); Statistics/Inference; Evolutionary Genomics; Molecular Ecology.
OTHER INTERESTS	Effective Technical Writing in English; Software Engineering; Scientific Computing; Artificial Intelligence in Board Games and for Medical Diagnosis; Computational Finance.
MAJOR AWARDS	<p>From: Natural Sciences and Engineering Research Council of Canada</p> <ul style="list-style-type: none">• Award: Alexander Graham Bell Graduate Scholarship, 09/2012–08/2015• Value: 105 000\$ (equivalent to 105 000 USD or 8 150 000 JPY, 2012 est.)
EDUCATION	<p>Department of Biology, Université du Québec à Montréal, Montréal, Canada.</p> <p>Ph.D., September 2012 – August 2015 [<i>expected</i>]</p> <ul style="list-style-type: none">• Thesis Proposal: <i>Artificial Intelligence and the Puzzle of Genomic Diversity</i>• Adviser: Dr. Dominique Gravel• Area of Study: Artificial Intelligence (machine learning: neural networks, probabilistic graphical models), evolutionary genomics, molecular ecology. <p>College of Engineering, University of Illinois at Chicago, Chicago, USA.</p> <p>Graduate Certificate in Bioinformatics, 2012,</p> <ul style="list-style-type: none">• Area of Study: Machine learning (Artificial Intelligence) and biostatistics. <p>Université du Québec, Québec, Canada.</p> <p>B.S., 2009,</p> <ul style="list-style-type: none">• Major in Biology,• Minor in Mathematics & Computer Science.
REFEREED JOURNAL PUBLICATIONS	<p>[1] P Desjardins-Proulx, EP White, JJ Adamson, K Ram, T Poisot, and D Gravel. Developing a preprint culture in biology. <i>Submitted to PLOS Biology (in review)</i></p>

	<p>[2] R Vergilino, TA Elliott, P Desjardins-Proulx, TJ Crease and F Dufresne. Evolution of a transposon in <i>Daphnia</i> hybrid genomes. <i>Mobile DNA</i> 4-7, 2013. DOI: doi:10.1186/1759-8753-4-7</p> <p>[3] D Ai, P Desjardins-Proulx, C Chu, and G Wang. The influence of immigration and dispersal limitation on the repeatability of niche and neutral communities. <i>PLOS ONE</i> 7(9): e46164, 2012. DOI: 10.1371/journal.pone.0046164</p> <p>[4] P Desjardins-Proulx and D Gravel. A complex speciation-richness relationship in a simple neutral model. <i>Ecology and Evolution</i> 2(8): 1781–1790, 2012. DOI: 10.1002/ece3.292</p> <p>[5] P Desjardins-Proulx and D Gravel. How likely is speciation in neutral ecology? <i>The American Naturalist</i> 179(1):137-144, 2012. DOI: 10.1086/663196</p>
OTHER CONTRIBUTIONS	<p>[6] P Desjardins-Proulx. The case for arXiv and a broader conception of peer-reviews. Invited blog, International Network of Next-Generation Ecologists, 2012. http://www.innge.net/?q=node/330.</p> <p>[7] P Desjardins-Proulx. A foot in the neutral trap. Invited comment for <i>Trends in Ecology & Evolution</i>, 2012.</p> <p>[8] P Desjardins-Proulx. L'origine de la Biodiversité. Le Mouton Noir, Mai-Juin. Cahier Spécial sur la Biodiversité p.2, 2010. <i>Selected and republished by Gaia-Presse, a group sponsored by the Université Laval</i>.</p>
TEACHING EXPERIENCE	<p>Université du Québec, Québec, Canada.</p> <ul style="list-style-type: none"> • 2013. I organized a series of meetings on information theory and inference. • 2012. CUDA training (intensive one-day course). • 2012. Scientific computing with C (grad. students/post-docs). • 2011. Scientific computing with C (grad. students/post-docs).
REFeree SERVICE	<p><i>Journal of Theoretical Biology, Theoretical Ecology, Acta Biotheoretica, Journal of Plant Ecology.</i></p>
COMPUTER SKILLS	<ul style="list-style-type: none"> • Programming languages: <ul style="list-style-type: none"> – Advanced: C++11, C. – Intermediate: JavaScript, Java, Ruby, Go, Python, MatLab. – Basic: Haskell, R. • Tools & Frameworks <ul style="list-style-type: none"> – Operating systems: Linux (Debian, Ubuntu, Arch). – Revision control: git, mercurial. – Compilers: gcc, clang, intel, ghc. – Database: MongoDB. – Web: Node.js (Express), basic php/css3/html5. • Web sites: <ul style="list-style-type: none"> – Personal page: http://phdp.github.com. – TEE's website: http://chaire-eec.uqar.ca.
PROFESSIONAL MEMBERSHIPS	<ul style="list-style-type: none"> • Society for the Study of Evolution 2008–... • International Society for Computational Biology 2010–...

	<ul style="list-style-type: none"> • Institute of Electrical and Electronics Engineers • Quebec Center for Biodiversity Science 	2012–... 2012–...
GRADUATE COURSES	<ul style="list-style-type: none"> • 2012. Datamining (machine learning) [A (4.0/4.0), 4 credits] • 2011. Biostatistics [A (4.0/4.0), 4 credits] • 2010. Intro. to bioinformatics [A (4.0/4.0), 4 credits] • 2010. Reading course on Ancestral Recombination Graphs [A, 3 credits] 	UIC UIC UIC UQAR
REFEREES	<p>Dr. Dominique Gravel</p> <ul style="list-style-type: none"> • Professor (Université du Québec à Rimouski) • Canada Research Chair. • e-mail: dominique_gravel@uqar.qc.ca • phone: 1.418.723.1986 #1752 <p>★ <i>I worked as a research profesionnal in Dr. Gravel's lab from September 2009 to August 2012, we also collaborated on many scientific projects.</i></p> <p>Dr. James Rosindell</p> <ul style="list-style-type: none"> • Post-doctoral researcher, Imperial College London, UK. • e-mail: j.rosindell@imperial.ac.uk • phone: +44 (0)2075 942263 <p>★ <i>I have collaborated with Dr. Rosindell on several occasions.</i></p>	