
CURRENT POSITION	Ph.D. candidate, Department of biology, Université du Québec à Montréal, Canada, Quebec Center for Biodiversity Science, McGill University, Canada.
CONTACT	<i>email:</i> philippe.d.proulx@gmail.com <i>email (alt.):</i> p.desjardinsproulx@ymail.com <i>www:</i> http://phdp.github.com <i>phone:</i> +1.418.732.9877
LANGUAGES	French: Native. English: Full professional proficiency. Japanese: Limited working proficiency (<i>writing</i>); Elementary proficiency (<i>speaking</i>).
PRIMARY EXPERTISES	Machine learning: My thesis focuses on inference with probabilistic graphical models and the problem of transfer learning (inductive transfer). Development and deployment of machine learning software for data-intensive tasks: I know how to develop distributed algorithms and deploy then on the cloud using technologies such as Amazon EC2, ZeroMQ, MongoDB. Ecology.
EDUCATION	Department of Biology, Université du Québec à Montréal, Montréal, Canada. Ph.D., September 2012 – <ul style="list-style-type: none">• Thesis Proposal: <i>Machine Learning and the Puzzle of Genomic Diversity</i>• Adviser: Dr. Dominique Gravel• Area of Study: Machine learning; Statistical learning; Learning transfer; Probabilistic graphical models; Ecology. College of Engineering, University of Illinois at Chicago, Chicago, USA. Graduate Certificate in Bioinformatics, 2012, <ul style="list-style-type: none">• Area of Study: Machine learning and biostatistics. Université du Québec, Québec, Canada. B.S., 2009, <ul style="list-style-type: none">• Major in Biology,• Minor in Mathematics & Computer Science.
MAJOR AWARDS	Award: Alexander Graham Bell Graduate Scholarship (2012) <ul style="list-style-type: none">• From: Natural Sciences and Engineering Research Council of Canada• Value: 105 000\$ (equivalent to 105 000 USD or 8 150 000 JPY, 2012 est.)
REFEREED JOURNAL PUBLICATIONS	[1] P Desjardins-Proulx , EP White, JJ Adamson, K Ram, T Poisot, and D Gravel. The case for open preprints in biology. <i>PLOS Biology</i> (Accepted) [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: 10.1186/1759-8753-4-7

	<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, JL Rosindell, T Poisot, and D Gravel. A simple model to study phylogeographies and speciation patterns in space, 2012. arXiv: 1203.1790.</p> <p>[8] P Desjardins-Proulx. A foot in the neutral trap. Invited comment for <i>Trends in Ecology & Evolution</i>, 2012.</p> <p>[9] 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>Acta Biotheoretica, Journal of Theoretical Biology, Theoretical Ecology, Journal of Plant Ecology.</i></p>
COMPUTER SKILLS	<ul style="list-style-type: none"> • Tools & Frameworks <ul style="list-style-type: none"> – Operating systems: Linux. – Revision control: Git, Mercurial. – Compilers: LLVM/Clang, GCC, OpenJdk, Intel. – Databases: MongoDB, MySQL. – Web: Node.js (Express), basic php/css3/html5. • Programming languages: <ul style="list-style-type: none"> – Advanced: C++11, C. – Intermediate: JavaScript, Clojure, R, Java, Python, MatLab. • 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"> • Institute of Electrical and Electronics Engineers 2012–... • Quebec Center for Biodiversity Science 2012–... • Society for the Study of Evolution 2008–...

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] 	<div>UIC</div> <div>UIC</div> <div>UIC</div> <div>UQAR</div>
ONLINE COURSES	<p>Courses in progress are in italic:</p> <ul style="list-style-type: none"> • Coursera: <i>Web Intelligence and Big Data</i> (2013), <i>Probabilistic graphical models</i> (2013). • Code School: Try Git (2012), Try Ruby (2012), CSS Cross-Country (2012). 	
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 ★ <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>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 ★ <i>I have collaborated with Dr. Rosindell on several occasions.</i> 	