

CONTACT INFORMATION	<p>Department of Zoology The University of British Columbia 6270 University Boulevard Vancouver, BC V6T 1Z4, Canada</p>	<p><i>E-mail:</i> <a href="mailto:kgilbert@zoology.ubc.ca">kgilbert@zoology.ubc.ca</a> <i>Website:</i> Kimberly J. Gilbert</p>
EDUCATION	<p>Ph.D. Zoology, University of British Columbia <i>Advisor:</i> Dr. Michael C. Whitlock</p> <p>B.Sc. Biology, University of Virginia Graduated with Distinction Specialization in environmental &amp; biological conservation</p>	<p>2011 – Present</p> <p>2006 – 2010</p>
AWARDS & FUNDING	<p>Ann and William Messenger Graduate Fellowship, UBC</p> <p>Zoology Graduate Fellowship, UBC</p> <p>Zoology Graduate Student Travel Award, UBC</p> <p>Frieda Granot Graduate Scholarship in Interdisciplinary Research</p> <p>Theodore E Arnold Fellowship</p> <p>Patrick David Campbell Graduate Fellowship</p> <p><i>Declined;</i> Zoology Graduate Fellowship, UBC</p> <p>Zoology Graduate Student Travel Award, UBC</p> <p>CIEE Synthesis Meeting Travel Grant, Landscape Genetics Graduate Seminar</p> <p>BRITE Fellowship, UBC</p>	<p>2015</p> <p>2014 – 2015</p> <p>2014</p> <p>2013 – 2014</p> <p>2013 – 2014</p> <p>2013 – 2014</p> <p>2013 – 2014</p> <p>2013</p> <p>2012</p> <p>2011 – 2013</p>
PUBLICATIONS	<p>[1] Santiso X, L Lopez, <b>KJ Gilbert</b>, R Barreiro, MC Whitlock, R Retuerto (<i>In Press</i>) Patterns of genetic variation within and among populations in <i>Arbutus unedo</i> and its relation with selection and evolvability. <i>Perspectives in Plant Ecology, Evolution and Systematics</i>, doi: 10.1016/j.ppees.2015.02.006.</p> <p>[2] <b>Gilbert KJ</b>, MC Whitlock (2015) <math>Q_{ST}</math>-<math>F_{ST}</math> comparisons with unbalanced half-sib designs. <i>Molecular Ecology Resources</i>, 15(2), 262-267.</p> <p>[3] Caplins SA, <b>KJ Gilbert</b>, C Ciotir, J Roland, SF Matter, N Keyghobadi (2014) Landscape structure and the genetic effects of a population collapse. <i>Proceedings of the Royal Society B</i>. 281: 20141798; doi: 10.1098/rspb.2014.1798</p> <p>[4] Vines TH, AYK Albert, RL Andrew, F Débarre, DG Bock, MT Franklin, <b>KJ Gilbert</b>, J-S Moore, S Renaut, DJ Rennison (2014) The availability of research data declines rapidly with age. <i>Current Biology</i>, 24, 94-97.</p> <p>[5] Vines TH, RL Andrew, DG Bock, MT Franklin, <b>KJ Gilbert</b>, NC Kane, EJ Kleynhans, J-S Moore, BT Moyers, S Renaut, DJ Rennison, T Veen, S Yeaman (2013) Mandated archiving greatly improves access to research data. <i>FASEB Journal</i>, 27(4), 1304-1308.</p> <p>[6] <b>Gilbert KJ</b>, RL Andrew, DG Bock, MT Franklin, NC Kane, J-S Moore, BT Moyers, S Renaut, DJ Rennison, T Veen, TH Vines (2012) Recommendations for utilizing and reporting population genetic analyses: The reproducibility of genetic clustering using the program STRUCTURE. <i>Molecular Ecology</i>, 21(20), 4925-4930.</p>	

- [7] Keller SR, **KJ Gilbert**, PD Fields, DR Taylor (2012) Bayesian inference of a complex invasion history revealed by nuclear and chloroplast genetic diversity in the colonizing plant, *Silene latifolia*. *Molecular Ecology*, 21(19), 4721-4734.
- [8] Whitlock MC, **KJ Gilbert** (2012)  $Q_{ST}$  in a hierarchically structured population. *Molecular Ecology Resources*, 12(3), 481-483.

#### INVITED SEMINARS & WORKSHOPS

*Invited Seminar:* Estimating effective population size and the reproducibility of science

**Monash University** - Melbourne, VIC, Australia

February 2015

**Duke University Pop Bio Seminar Series** - Durham, NC, USA

December 2014

Reproducible Science Hackathon, **NESCent**

December 2014

21-member working group aiming to develop a curriculum and workflow for teaching reproducible science

SimBank, **NESCent** Catalysis Meeting

November 2014

25-member working group aiming to create a collection of openly available simulation results to facilitate testing of statistical population genetic and phylogeographic methods

#### PRESENTATIONS

Evaluating methods for estimating effective population size in the presence of migration – KJ Gilbert & MC Whitlock

2014 *Talk:* Evolution 2014 Meeting, Raleigh, NC, USA

2014 *Talk:* Evo-WIBO Conference (Evolutionary Biology in the Pacific Northwest)

Estimating effective population size in natural populations: Are we making assumptions we should not be making? – KJ Gilbert, PD Fields, DR Taylor

2013 *Talk:* Evolution 2013 Meeting, Snowbird, Utah, USA

2013 *Talk:* Canadian Society for Ecology and Evolution (CSEE), Kelowna, BC

Local adaptation in the lodgepole pine (*Pinus contorta*). – KJ Gilbert & MC Whitlock

2012 *Talk:* SFU-UBC-UVic Ecology and Evolution Retreat, Brackendale, BC

Effective population size estimates in a demographically and genetically monitored metapopulation of *Silene latifolia*. – KJ Gilbert, PD Fields, DR Taylor

2012 *Poster:* Evolution Ottawa, 1<sup>st</sup> Joint Congress on Evolutionary Biology

Range expansion and adaptation across heterogeneous environments. – KJ Gilbert & MC Whitlock

2012 *Talk:* Landscape Genetics Symposium, CIEE Graduate Mini-Course, Toronto

2012 *Poster:* Evo-WIBO Conference (Evolutionary Biology in the Pacific Northwest)

Inferred invasion history of *Silene latifolia* into North America utilizing population genetic data and approximate Bayesian computation. – KJ Gilbert, SR Keller, PD Fields, DR Taylor

2011 *Poster:* 13<sup>th</sup> Congress of the European Society for Evolutionary Biology, Tuebingen, Germany

2011 *Poster:* SFU-UBC-UVic Ecology and Evolution Retreat, Brackendale, BC

TEACHING EXPERIENCE	<p><i>Fundamentals of Evolutionary Biology</i>, BIOL 336 Fall 2012, Spring 2013</p> <ul style="list-style-type: none"> <li>- Discussion-based tutorial covers natural selection, population genetics, quantitative genetics, systematics, and classical and molecular approaches to the study of evolution.</li> <li>- Three discussion sections of 45 students total per semester</li> </ul>
	<p><i>Fundamentals of Biostatistics</i>, BIOL 300 Fall 2013, Fall 2014</p> <ul style="list-style-type: none"> <li>- Statistical procedures for biological research; estimation, hypothesis testing, goodness of fit, analysis of variance and regression; use of computers for statistical analysis.</li> <li>- Two sections of 70 students total in 2013, one section of 36 students and served as lab coordinator in for 254 students enrolled in course in 2014</li> </ul>
VOLUNTEER & OUTREACH	<p>Reviewer for <i>Molecular Ecology Resources</i>, <i>Ecology and Evolution</i>, <i>Tree Genetics &amp; Genomes</i></p> <p>Society member: American Society of Naturalists, Society for the Study of Evolution</p>
	<p>Graduate Student Council Member, <i>American Society of Naturalists</i> 2013 – 2016</p> <ul style="list-style-type: none"> <li>- Organized the student-mentor mixer at the 2014 Evolution Meeting in Raleigh, NC</li> <li>- Serve on the workshops committee for ASN-sponsored workshops</li> </ul>
	<p>Faculty Search Committee: Graduate Student Representative 2014</p> <ul style="list-style-type: none"> <li>- Evolutionary biology CRC2 job search for the Department of Zoology, University of British Columbia</li> </ul>
	<p>Volunteer mist-netting and bird banding with <i>Wild Research</i> 2013 – Present</p> <ul style="list-style-type: none"> <li>- Participate in winter, spring migration, and fall migration bird monitoring at Iona Island Bird Observatory, Vancouver, BC</li> <li>- Teach proper bird handling, aging, data collection, and mist net extraction techniques to new volunteers</li> <li>- Assist in teaching other volunteers and visitors to the station about the species conservation and monitoring, and the general tasks of running a banding station</li> </ul>
PREVIOUS RESEARCH EXPERIENCE	<p><i>Independent Study &amp; Research Technician</i> September 2009 – June 2011</p> <ul style="list-style-type: none"> <li>- Taylor Lab, University of Virginia – Evolution and Population Genetics Laboratory</li> <li>- Genetic analysis of metapopulation processes in the <i>Silene-Micobotryum</i> host-pathogen system</li> </ul> <p>Supervisors:</p> <ul style="list-style-type: none"> <li>• Dr. Douglas R. Taylor, Professor, Dept. of Biology, Univ. of Virginia</li> <li>• Peter D. Fields, Ph.D. Candidate, Dept. of Biology, Univ. of Virginia</li> <li>• Dr. Janis Antonovics, Lewis and Clark Professor of Biology, Dept. of Biology, Univ. of Virginia</li> </ul>
	<p><i>Field Technician &amp; Research Assistant</i> May 2009 – August 2009</p> <ul style="list-style-type: none"> <li>- Blandy Experimental Farm – The University of Virginia</li> <li>- Field research on effects of tropospheric ozone on native vs. invasive tree species</li> </ul> <p>Supervisors:</p> <ul style="list-style-type: none"> <li>• Dr. David E. Carr, Research Associate Professor, Dept. of Environmental Sciences; Director, Blandy Experimental Farm, Univ. of Virginia</li> <li>• Eric E. Elton, Ph.D. Candidate, Dept. of Environmental Sciences, Univ. of Virginia</li> </ul>
	<p><i>Bird Banding Intern</i> May 2008 – August 2008</p> <ul style="list-style-type: none"> <li>- Monitoring Avian Productivity and Survivorship (MAPS) – The Institute for Bird Populations</li> </ul>

- Extracted, banded, and processed passerines and near-passerines during summer breeding season to monitor populations of local species
- Supervisory Biologist:
- James Junda