

CONTACT INFORMATION

Department of Zoology
The University of British Columbia
6270 University Boulevard
Vancouver, BC V6T 1Z4, Canada

E-mail: kgilbert@zoology.ubc.ca
Website: Kimberly J. Gilbert

EDUCATION

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| Ph.D. Zoology, University of British Columbia <i>Advisor: Dr. Michael C. Whitlock</i> | 2011 – Present |
| B.Sc. Biology, University of Virginia Graduated with Distinction Specialization in environmental & biological conservation | 2006 – 2010 |

AWARDS & FUNDING

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| Ann and William Messenger Graduate Fellowship, UBC | 2015 |
| Zoology Graduate Fellowship, UBC | 2014 – 2015 |
| Zoology Graduate Student Travel Award, UBC | 2014 |
| Frieda Granot Graduate Scholarship in Interdisciplinary Research | 2013 – 2014 |
| Theodore E Arnold Fellowship | 2013 – 2014 |
| Patrick David Campbell Graduate Fellowship | 2013 – 2014 |
| <i>Declined; Zoology Graduate Fellowship, UBC</i> | 2013 – 2014 |
| Zoology Graduate Student Travel Award, UBC | 2013 |
| CIEE Synthesis Meeting Travel Grant, Landscape Genetics Graduate Seminar | 2012 |
| BRITE Fellowship, UBC | 2011 – 2013 |

PUBLICATIONS

- [1] Caplins SA, **KJ Gilbert**, C Ciotir, J Roland, SF Matter, N Keyghobadi (2014) [Landscape structure and the genetic effects of a population collapse](#). *Proceedings of the Royal Society B*. 281: 20141798; doi: 10.1098/rspb.2014.1798
- [2] **Gilbert KJ**, MC Whitlock (*In Press*) [Q_{ST}-F_{ST} comparisons with unbalanced half-sib designs](#). *Molecular Ecology Resources*.
- [3] Vines TH, AYK Albert, RL Andrew, F Débarre, DG Bock, MT Franklin, **KJ Gilbert**, J-S Moore, S Renaut, DJ Rennison (2014) [The availability of research data declines rapidly with age](#). *Current Biology*, 24, 94-97.
- [4] Vines TH, RL Andrew, DG Bock, MT Franklin, **KJ Gilbert**, 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](#). *FASEB Journal*, 27(4), 1304-1308.
- [5] **Gilbert KJ**, 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](#). *Molecular Ecology*, 21(20), 4925-4930.
- [6] 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.
- [7] Whitlock MC, **KJ Gilbert** (2012) [Q_{ST} in a hierarchically structured population](#). *Molecular Ecology Resources*, 12(3), 481-483.

INVITED
SEMINARS &
WORKSHOPS

- Invited Seminar: Duke University [Pop Bio Seminar Series](#) December 2014
Estimating effective population size and the reproducibility of science
- Reproducible Science Hackathon, [NESCent](#) December 2014
A 21-member working group aiming to develop a curriculum and workflow for teaching reproducible science
- SimBank, [NESCent](#) Catalysis Meeting November 2014
A 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, 1st 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*: 13th Congress of the European Society for Evolutionary Biology, Tuebingen, Germany
- 2011 *Poster*: SFU-UBC-UVic Ecology and Evolution Retreat, Brackendale, BC

TEACHING
EXPERIENCE

- Fundamentals of Evolutionary Biology*, BIOL 336 Fall 2012, Spring 2013
- Discussion-based tutorial covers natural selection, population genetics, quantitative genetics, systematics, and classical and molecular approaches to the study of evolution.
 - Three discussion sections of 45 students total per semester
- Fundamentals of Biostatistics*, BIOL 300 Fall 2013, Fall 2014
- Statistical procedures for biological research; estimation, hypothesis testing, goodness of fit, analysis of variance and regression; use of computers for statistical analysis.
 - 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

VOLUNTEER &
OUTREACH

Reviewer for *Molecular Ecology Resources, Ecology and Evolution, Tree Genetics & Genomes*

Graduate Student Council Member, *American Society of Naturalists* 2013 – 2016

- Organized the student-mentor mixer at the 2014 Evolution Meeting in Raleigh, NC
- Serve on the workshops committee for ASN-sponsored workshops

Faculty Search Committee: Graduate Student Representative 2014

- Evolutionary biology CRC2 job search for the Department of Zoology, University of British Columbia

Volunteer mist-netting and bird banding with *Wild Research* 2013 – Present

- Participate in winter, spring migration, and fall migration bird monitoring at Iona Island Bird Observatory, Vancouver, BC
- Teach proper bird handling, aging, data collection, and mist net extraction techniques to new volunteers
- 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

PREVIOUS
RESEARCH
EXPERIENCE

Independent Study & Research Technician September 2009 – June 2011

- Taylor Lab, University of Virginia – Evolution and Population Genetics Laboratory
- Genetic analysis of metapopulation processes in the *Silene-Micobotryum* host-pathogen system

Supervisors:

- Dr. Douglas R. Taylor, Professor, Dept. of Biology, Univ. of Virginia
- Peter D. Fields, Ph.D. Candidate, Dept. of Biology, Univ. of Virginia
- Dr. Janis Antonovics, Lewis and Clark Professor of Biology, Dept. of Biology, Univ. of Virginia

Field Technician & Research Assistant May 2009 – August 2009

- Blandy Experimental Farm – The University of Virginia
- Field research on effects of tropospheric ozone on native vs. invasive tree species

Supervisors:

- Dr. David E. Carr, Research Associate Professor, Dept. of Environmental Sciences; Director, Blandy Experimental Farm, Univ. of Virginia
- Eric E. Elton, Ph.D. Candidate, Dept. of Environmental Sciences, Univ. of Virginia

Bird Banding Intern May 2008 – August 2008

- Monitoring Avian Productivity and Survivorship (MAPS) – [The Institute for Bird Populations](#)
- Extracted, banded, and processed passerines and near-passerines during summer breeding season to monitor populations of local species

Supervisory Biologist:

- James Junda