

Kimberly J. Gilbert

Ph.D. Candidate

CONTACT INFORMATION

Department of Zoology
The University of British Columbia
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EDUCATION

Ph.D. Zoology, University of British Columbia 2011 – Present
Advisor: Dr. Michael C. Whitlock

B.Sc. Biology, University of Virginia, Graduated with Distinction 2006 – 2010

AWARDS & FUNDING

Zoology Graduate Fellowship, UBC 2014 – 2015

Frieda Granot Graduate Scholarship in Interdisciplinary Research 2013 – 2014

Theodore E Arnold Fellowship 2013 – 2014

Patrick David Campbell Graduate Fellowship 2013 – 2014

Declined; Zoology Graduate Fellowship, UBC 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] **Gilbert KJ**, MC Whitlock (*In Press*) Q_{ST} F_{ST} comparisons with unbalanced half-sib designs. *Molecular Ecology Resources*.
- [2] 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.
- [3] 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.
- [4] **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.
- [5] 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.
- [6] Whitlock MC, **KJ Gilbert** (2012) Q_{ST} in a hierarchically structured population. *Molecular Ecology Resources*, 12(3), 481-483.

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, Tübingen, Germany

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

TEACHING EXPERIENCE

Fundamentals of Evolutionary Biology, BIOL 336
Fall 2012, Spring 2013
Three discussion sections, 15 students each; covers natural selection; population genetics, quantitative genetics and systematics; classical and molecular approaches to the study of evolution.

Fundamentals of Biostatistics, BIOL 300
Fall 2013
Statistical procedures for biological research; estimation, hypothesis testing, goodness of fit, analysis of variance and regression; use of computers for statistical analysis.

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

VOLUNTEER &
OUTREACH

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

Graduate Student Council Member for the [American Society of Naturalists](#) Sep. 2013 –

Volunteer mist-netting and bird banding with [Wild Research](#) Jan. 2013 –

- Participate in winter, spring migration, and fall migration bird monitoring at Iona Island Bird Observatory, Vancouver, BC
- Assist in teaching other volunteers and visitors to the station about the species in the area and the general tasks of running a banding station

COLLABORATORS

- [Dr. Peter D. Fields](#), Post-doctoral Fellow, U. Basel
- [Dr. Stephen R. Keller](#), Assistant Professor, U. of Maryland Center for Environmental Science
- The Reproducibility Group at UBC
 - [Dr. Timothy H. Vines](#), Managing Editor, *Molecular Ecology & Molecular Ecology Resources*
 - [Dr. Arianne Albert](#), Biostatistician, Women's Health Research Institute, UBC
 - [Dr. Rose L. Andrew](#), Lecturer in Botany, U. of New England
 - [Dan G. Bock](#), Ph.D. Student, Dept. of Botany, UBC
 - [Dr. Florence Débarre](#), Lecturer, U. of Exeter
 - [Dr. Michelle T. Franklin](#), Postdoctoral Fellow, Dept. of Biology, Simon Fraser U.
 - [Dr. Nolan C. Kane](#), Research Associate, U. of Colorado, Boulder
 - [Dr. Jean-Sébastien Moore](#), Postdoctoral Fellow, Dept. of Biology, U. Laval
 - [Brook T. Moyers](#), Ph.D. Candidate, Dept. of Botany, UBC
 - [Dr. Sébastien Renaut](#), Postdoctoral Fellow, Dept. of Botany, UBC
 - [Diana J. Rennison](#), Ph.D. Candidate, Dept. of Zoology, UBC
 - [Dr. Thor Veen](#), Postdoctoral Fellow, Biodiversity Research Centre, UBC
 - [Dr. Sam Yeaman](#), Postdoctoral Fellow, Dept.s of Forestry and Botany, UBC
- [Dr. Douglas R. Taylor](#), Professor, U. of Virginia