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 *Advisor:* Dr. Michael C. Whitlock	2011 – Present
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

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
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