Kimberly J. Gilbert — Ph.D. Candidate

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

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

B.Sc. Biology, University of Virginia — 2006 – 2010
Graduated with Distinction
Specialization in environmental & biological conservation

AWARDS & FUNDING

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
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] Caplins SA, **KJ Gilbert**, C Ciotir, J Roland, SF Matter, N Keyghobadi (*Accepted*) Landscape structure and the genetic effects of a population collapse. *Proceedings of the Royal Society B*.

[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.

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 250 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

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

Collaborators

- Dr. Peter D. Fields, Post-doctoral Fellow, U. Basel
- Dr. Stephen R. Keller, Assistant Professor, U. of Maryland Center for Environmental Science

  Dr. Nusha Keyghobadi, Assistant Professor, University of Western Ontario
- 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