

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 2006 – 2010
Graduated with Distinction
Specialization in environmental & biological conservation

AWARDS & FUNDING

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
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 (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: 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, 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

- 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*
- Society member: American Society of Naturalists, Society for the Study of Evolution
- 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