CONTACT INFORMATION	Department of Zoology The University of British Columbia 6270 University Boulevard Vancouver, BC V6T 1Z4, Canada	E-mail: kgilbert@zoo Website: http://kjgilbert.gith	0,
EDUCATION	Ph.D. Zoology, University of British Columbia <i>Advisor:</i> Dr. Michael C. Whitlock	20	11 – Present
	B.Sc. Biology, University of Virginia 2006 – 2010 Graduated with Distinction Specialization in environmental & biological conservation		
Awards & Funding	Affiliated Fellowships, UBC		2015 – 2016
	Declined; Zoology Graduate Fellowship, UBC		2015 - 2016
	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	rship	
	Declined; Zoology Graduate Fellowship, UBC	llowship, UBC	
	Zoology Graduate Student Travel Award, UBC		2013
	CIEE Synthesis Meeting Travel Grant, Landscape Genet	ics Graduate Seminar	2012
	BRITE Fellowship, UBC		2011 – 2013

PUBLICATIONS

- [1] **Gilbert KJ**, MC Whitlock (*In Press*) Evaluating methods for estimating local effective population size with and without migration. *Evolution*.
- [2] Santiso X, L Lopez, **KJ Gilbert**, R Barreiro, MC Whitlock, R Retuerto (*In Press*) Patterns of genetic variation within and among populations in *Arbutus unedo* and its relation with selection and evolvability. *Perspectives in Plant Ecology, Evolution and Systematics*, doi: 10.1016/j.ppees.2015.02.006.
- [3] **Gilbert KJ**, MC Whitlock (2015) *Q*st-*F*st comparisons with unbalanced half-sib designs. *Molecular Ecology Resources*, 15(2), 262-267.
- [4] 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
- [5] 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.
- [6] 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.

- [7] **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.
- [8] 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.
- [9] Whitlock MC, KJ Gilbert (2012) Qst 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

Validating SNP loci underlying local adaptation in lodgepole pine – KJ Gilbert, S Yeaman, KE Lotterhos, KA Hodgins, H Suren, JA Holliday, S Nadeau, SN Aitken, MC Whitlock

2015 *Poster:* 15th Congress of the European Society for Evolutionary Biology, Lausanne, Switzerland

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

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

- Evolution and Population Genetics Laboratory, University of Virginia
- 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

- 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