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: Population genetic inference in the face of demographic history

University of Bern - Bern, Switzerland

August 2015

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, 2014, 2015

- 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 for 254 students enrolled in course in 2014, and one section of 36 students and served as lab coordinator for 250 students enrolled in course in 2015.

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