

Gina L. Conte

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Education

2008-2014 Ph.D.

Supervisor: Dolph Schluter
Biodiversity Research Centre and Zoology Department
University of British Columbia

2003-2006 B.Sc.

Behavior, Ecology, Evolution & Systematics
Biological Sciences
University of Maryland

Postdoctoral Appointments

2014-Present

Supervisors: Loren Rieseberg, Michael Whitlock and Sally Aitken
AdapTree Project
Department of Forest and Conservation Sciences
University of British Columbia

Honors, Awards and Fellowships

2014 Talk Award – CSEE, Genomes to Biomes 2014

2014 Talk Award – EVO-WIBO

2014 Talk Award - Zoology Graduate Student Symposium

2013 American Genetic Association Travel Award

2013-2014 Zoology Graduate Fellowship - UBC

2012 American Genetic Association Travel Award

2012 NSERC-CREATE Training Program - BRITE Travel Award

2009-2011 NSERC-CREATE Training Program - BRITE Fellowship

2009-2010 National Science Foundation GRFP Honorable Mention

2009-2010 University Graduate Fellowship - UBC

2008-2009 Graduate Entrance Scholarship - UBC

2008-2009 Eugenie Clark Biology Department Fellowship - UMD (declined)

2006 High Honors in Biology with B.Sc. degree

2006 *Cum laude* with B.Sc. degree

2004-2006 “Outstanding Student” in the College of Chemical and Life Sciences – UMD

Publications

Arnegard, M.E., M.D. McGee, B.W. Matthews, K.B. Marchinko, **G.L. Conte**, S. Kabir, N. Bedford, S. Bergek, Y.F. Chan, F.C. Jones, D.M. Kingsley, C.L. Peichel, and D. Schluter. 2014. Genetics of ecological divergence during speciation. *Nature* 511: 307-311. doi:10.1038/nature13301.

Conte, G.L., and D. Schluter. 2013. Experimental confirmation that body size determines mate preference via phenotype matching in a stickleback species pair. *Evolution* 67-5: 1477-1484. DOI: 10.1111/evo.12041.

Oh, K., **G.L. Conte**, and K.L. Shaw. 2013. Founder effects and the evolution of asymmetrical sexual isolation in a rapidly-speciating clade. *Current Zoology* 59 (2): 230–238.

Conte, G.L., M.E. Arnegard, C.L. Peichel, and D. Schluter. 2012. The probability of genetic parallelism and convergence in natural populations. *Proc. R. Soc. B* 279: 5039-5047. doi: 10.1098/rspb.2012.2146.

Via, S., **G. Conte**, C. Mason-Foley, and K. Mills. 2012. Localizing FST outliers on a QTL map reveals evidence for large genomic regions of reduced gene exchange during speciation-with-gene-flow. *Mol. Ecol.* 21(22): 5546-5560. DOI: 10.1111/mec.12021.

Schluter, D. and **G.L. Conte**. 2009. Genetics and ecological speciation. *PNAS* 106: 9955-9962.

Manuscripts in Preparation

Conte G.L., M.E. Arnegard, J. Best, Y.F. Chan, F.C. Jones, D.M. Kingsley, D. Schluter and C.L. Peichel. *Submitted to Genetics*. The Extent of Genetic Parallelism Underlying Parallel Phenotypic Divergence of Sympatric Threespine Stickleback.

Presentations

2014 Canadian Society for Ecology and Evolution Conference
Talk Title: “How predictable are the genetics of adaptation?”

2014 EVO-WIBO
Talk Title: “How predictable are the genetics of adaptation?”

2014 Zoology Graduate Student Symposium
Talk Title: “How predictable are the genetics of adaptation?”

2013 AGA 2013: Speciation Continuum
Poster Title: “How parallel is divergence in quantitative traits and their QTL during repeated ecological speciation?”

2012 Pacific Northwest Ecology and Evolution Retreat

Talk Title: "The probability of genetic parallelism and convergence in natural populations"

2012 Seventh International Conference on Stickleback Behavior and Evolution

Talk Title: "Tests of genomic-level parallelism underlying parallel ecological speciation in threespine stickleback"

2012 First Joint Congress on Evolutionary Biology

Talk Title: "Tests of genomic-level parallelism underlying parallel ecological speciation in threespine stickleback"

2011 Invited Lecture in 'Diversity and Evolution of Fishes' (UBC BIOL465)

Lecture Title: "Ecological Genetics of Speciation"

2011 Pacific Northwest Ecology and Evolution Retreat

Talk Title: "Preliminary QTL for niche differences between benthic and limnetic sticklebacks"

2011 Canadian Society for Ecology and Evolution Conference

Talk Title: "Assortative Mating by Body Size Phenotype Matching"

2011 Zoology Graduate Student Symposium

Talk Title: "Assortative Mating by Body Size Phenotype Matching"

2010 Evolution Conference

Poster Title: "Genetic Architecture of Speciation With Gene Flow: Threespine Stickleback Species Pairs"

2010 Texada Island Stickleback Symposium

Talk Title: "Discovering the Genetics of Speciation in Benthic and Limnetic Threespine Sticklebacks"

2009 Pacific Northwest Ecology and Evolution Retreat

Talk Title: "Simple mendelian segregation of nesting habitat preference in male sticklebacks"

2009 Stickleback Molecular Genetics Course/Conference

Talk Title: "Genetic architecture of ecological speciation in benthic and limnetic sticklebacks".

2008 Pacific Northwest Ecology and Evolution Retreat

Poster Title: "Mapping Reproductive Isolation in Threespine Sticklebacks: Proposed Research".

Other Work Experience:

2008-2009 Teaching Assistant - Basic Genetics

Biology Department, University of British Columbia

2006-2008 Laboratory Manager and Research Assistant

Via Lab, University of Maryland

2006 Field Assistant
Shaw Lab, University of Maryland

2005-2006 Honors Research Thesis
Shaw Lab, University of Maryland

2004-2006 Laboratory Assistant
Shaw Lab, University of Maryland

2003 Field and Greenhouse Assistant
Costa Lab, University of Maryland

Supervisory Experience

2013-present Joey Burant – Directed studies student, Schluter lab UBC

2009-2013 Jacob Best – Lab and field technician, Schluter lab UBC

2010-2011 Tiffany Lam - Honors student and research assistant, Schluter Lab UBC

2008-2011 Nicole Bedford - Honors student and research assistant, Schluter Lab UBC

2008-2010 Sahriar Kabir – Honors student and research assistant, Schluter Lab UBC

2007-2008 Casey Mason-Foley - Undergraduate research assistant, Via Lab UMD

2007-2008 Kelly Mills - Undergraduate research assistant, Via Lab UMD

2006-2008 Jeffrey Lew - Undergraduate research assistant, Via Lab UMD

Professional Memberships

Society for the Study of Evolution (SSE)

Canadian Society for Ecology and Evolution (CSEE)

American Society of Naturalists (ASN)

The American Association for the Advancement of Science (AAAS)

Professional Service and Outreach

2008-2014 Member of the Zoology Graduate Student Association

2012 Volunteer for interviews with students in UBC's first-year science seminar (SCI113)

2011 Organizer of the Zoology Graduate Student Symposium

2011 Organizer of the Annual Evolution Lecture

2010-present Reviewer for *Evolution*, *Molecular Ecology*, *ODE*, *Oikos*, *J. Biogeography*

2010-2011 President of the Zoology Graduate Student Association

2010 Organizer of tri-university biology social

2010 Volunteer for FestEvolve

2010 Speaker at the Texada Island Stickleback Symposium

2008 Volunteer for Vancouver Evolution Festival

References

Dolph Schluter
(Ph.D. Advisor)
Professor and Canada Research Chair
Biodiversity Research Centre and
Zoology Department
University of British Columbia
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Catherine Peichel
(Collaborator and Ph.D. Committee Member)
Associate Member
Division of Human Biology
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Loren Rieseberg
(Postdoc Supervisor and Ph.D. Committee Member)
Professor
Biodiversity Research Centre and
Botany Department
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Michael Whitlock
(Postdoc Supervisor and Ph.D. Committee Member)
Professor
Biodiversity Research Centre and
Zoology Department
University of British Columbia
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Sara Via
(Former Supervisor)
Professor
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Department of Entomology
University of Maryland
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