

KIERAN SAMUK

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CURRENT POSITION

2017 Duke University
Postdoc Mentor: Dr. Mohamed Noor
Project: *Adaptive evolution of recombination rate in Drosophila pseudoobscura*

EDUCATION

2016 University of British Columbia
PhD Advisor: Dr. Dolph Schluter
Thesis: *The genomics of adaptation and speciation in threespine stickleback*

2011 University of British Columbia
MSc Advisor: Dr. Leticia Avilés
Thesis: *Sociality in cobweb spiders: evolutionary consequences and the role of pre-existing traits*

2008 University of Toronto
HBSc Honors Advisor: Dr. James Thomson
Thesis: *The ontogeny of social networks and division of labour in bumble bee colonies.*

PUBLICATIONS

- 2018 **Samuk, K.***, Xue, J.* and Rennison, D. J. 2018. Exposure to predators does not lead to the evolution of larger brains in experimental populations of threespine stickleback. *Evolution*, In press. Equal co-authorship with J. Xue.
- 2017 **Samuk, K.**, Owens, G. L., Delmore, K. E., Miller, S., Rennison, D. J. and Schluter, D. 2017. Gene flow and selection interact to promote adaptive divergence in regions of low recombination. *Molecular Ecology*, 26: 4378–4390.
- Featured as a "From the Cover" article & highlighted by an accompanying Perspective by D. Marques (2017)
 - Recommended on Faculty of 1000 (2017)
- 2016 **Samuk, K.** 2016. Perspective: Inversions and the origin of behavioral differences in cod. *Molecular Ecology*, 25(10):2111–2113.
- 2016 Miller, S.E., **Samuk, K.**, and Rennison, D.J., 2016. An experimental test of the effect of predation upon behaviour and trait correlations in the threespine stickleback. *Biological Journal of the Linnean Society*, 119(1): 117–125.

- 2014 **Samuk, K.**, Iritani, D. and Schluter, D. 2014. Reversed brain size sexual dimorphism accompanies loss of parental care in white sticklebacks. *Ecology and Evolution*, 4(16): 3236–3243.
- 2013 **Samuk, K.** and Avilés, L. 2013. Indiscriminate care of offspring predates the evolution of sociality in alloparenting social spiders. *Behavioral Ecology and Sociobiology*, 67(8): 1275–1284.
- 2011 **Samuk, K.**, LeDue, E.E., and Avilés, L. 2011. Sister clade comparisons reveal reduced maternal care behavior in social cobweb spiders (*Anelosimus* spp.). *Behavioral Ecology*, 23(1): 35–43.

SCHOLARSHIPS & AWARDS

- 2018 NSERC Postdoctoral Fellowship – \$90 000
- 2018 NSF BIO Research Grant: "An experimental test of the role of chromosomal inversions in adaptive evolution" Formal PI: M Noor. Conceived of and authored by K Samuk– \$200 000
- 2017 Duke Core Facility Research Award – \$6500
- 2016 SSE Hamilton Symposium Travel Award – \$500
- 2015 Society for Integrative and Comparative Biology Research Award – \$1000
- 2014 University of British Columbia Four Year Fellowship – \$20 000
- 2011 NSERC Canada Graduate Scholarship (3 years) – \$105 000
- 2010 Royal Society Publishing prize for Best Poster at IUSI – \$500
- 2009 NSERC Alexander Graham Bell Canada Graduate Scholarship – \$84 000
- 2008 NSERC Undergraduate Research Award – \$9 000
- 2008 Dr. James A. and Connie P. Dixon Award – \$500

PRESENTATIONS & CONTRIBUTIONS

- 2017 The evolution and consequences of recombination rate variation
Invited Seminar · *UNC BioPop Seminar Series*
- 2017 Incipient speciation without trophic specialization in the white stickleback
Talk · *Evolution*
- 2017 Natural selection and diversification in the threespine stickleback
Invited Seminar · *Duke PopBio Seminar Series*
- 2016 Clustering of adaptive alleles is favored by gene flow in a globally distributed species
Talk · *Evolution*
- 2015 Selection with gene flow favours reduced recombination in adaptive genomic regions in global stickleback populations
Talk · *Evolution*
- 2013 Genomic signatures of reproductive isolation in the white stickleback.
Poster · *European Society for Evolution Biology*

- 2010 The origin and consequences of cooperative breeding in social cobweb spiders.
Talk · *EcoEvo Retreat*
- 2010 The origin of alloparental care in social cobweb spiders.
Poster · *International Union for the Study of Social Insects*
- 2009 The Evolution of Alloparental Care in Social Comb-Footed Spiders.
Talk · *EcoEvo Retreat*
- 2008 Bumble Bee Social Networks Correlate with Division of Labour.
Poster · *Canadian Society for Evolution and Ecology*
- 2008 Horizontal Transmission of a Parasitic Mite in Bumble Bee Colonies.
Poster · *University of Toronto USRA Research Fair*

PROFESSIONAL SERVICE & OUTREACH

- Reviewer for: *Molecular Ecology, Molecular Biology and Evolution, Ecology and Evolution, Proceedings of the Royal Society B., Biological Journal of the Linnean Society*
- 2016 Invited speaker at Elder U (senior-citizen science outreach) at Capilano University
- 2016 Volunteer Instructor & Guru for UBC's "R Club"
- 2015 Facilitator & organizer for the UBC Biodiversity Seminar series
- 2013 Student Mentor for UBC Zoology Graduate Mentorship Program
- 2011 Volunteer for the UBC/SFU/UVic EcoEvo Retreat
- 2011 Student facilitator for UBC Biodiversity Internal Seminar Series

TEACHING ASSISTANTSHIPS

- 2016 Biostatistics
- 2015 Data Wrangling, Exploration, and Analysis with R
Also guest lectured: Regular Expressions in R
- 2014 Evolutionary Ecology
- 2011 Fundamentals of Evolutionary Biology
- 2010 Introduction to Entomology
- 2010 Animal Behaviour
- 2009 Animal Behaviour
- 2008 Introduction to Saltwater Ecosystems

Last updated February 1st, 2018