GENEVIEVE M. KOZAK

328A Science & Engineering,
285 Old Westport Road
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ACADEMIC APPOINTMENTS

2018-present **Assistant Professor of Biology, University of Massachusetts-Dartmouth**

2013-2018 **Postdoctoral Researcher, Tufts University**
Mentor: Erik Dopman

2010-2013 **Postdoctoral Researcher, University of Illinois**
Mentor: Becky Fuller

EDUCATION

Ph.D. **2010, Zoology, University of Wisconsin-Madison**
Speciation: The role of learning in social behavior, mate recognition, and sexual isolation in species pairs of threespine sticklebacks
Dissertation Supervisor: Jenny Boughman

B.S. **2004, Biological Sciences, Cornell University**
Summa cum laude with Distinction in Research

PUBLICATIONS

† *indicates co-first authors*; * *undergraduate co-authors*

2019 **Kozak GM**, Wadsworth CB, Kahne SC*, Bogdanowicz SM, Harrison RG, Coates BS, Dopman EB. Genomic basis of circannual rhythm in the European corn borer moth. ***Current Biology*** 29:3501-3509.

2019 Coates BS, **Kozak GM,** Kim KS, Sun J, Wang Y, Fleischer SJ, Dopman EB, TW Sappington. Influence of host plant, geography and pheromone strain on genomic differentiation in sympatric populations of *Ostrinia nubilalis.* ***Molecular Ecology*** 28: 4439-4452.

2018 Levy RC†, **Kozak GM**†, Dopman EB. Non-pleiotropic coupling of daily and seasonal temporal isolation in the European corn borer. ***Genes*** 9:180. *Special Issue: Evolutionary Genetics of Reproductive Isolation.* doi:10.3390/genes9040180

2017 **Kozak GM**, Wadsworth CB, Kahne SC*, Bogdanowicz SM, Harrison RG, Coates BS, Dopman EB. A combination of sexual and ecological divergence contributes to rearrangement spread during initial stages of speciation**.** ***Molecular Ecology*** 26:2331-2347.

2015 Gilman RT, **Kozak GM**. Learning to speciate: the biased learning of mate preferences promotes adaptive radiation. ***Evolution*** 69:3004-3012. 2015

2015 **Kozak GM**, Roland G*, Rankhorn C*, Falater A*, Berdan EL, Fuller RC. Behavioral isolation due to cascade reinforcement in *Lucania* killifish. ***American Naturalist*** 185:491-506.

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PUBLICATIONS *cont.* † *indicates co-first authors*; * *undergraduate co-authors*

2015 Levy RC†, **Kozak GM**†, Wadsworth CB, Coates BS, Dopman EB. Explaining the sawtooth: latitudinal periodicity in a circadian gene correlates with shifts in generation number. ***Journal of Evolutionary Biology*** 28:40-53**.**

2015 **Kozak GM**, Boughman JW. Predator experience overrides learned aversion to heterospecifics in stickleback species pairs. ***Proceedings of the Royal Society B: Biological Sciences*** 282:20143066.

2014 **Kozak GM**, Brennan RS, Berdan EL, Fuller RC, Whitehead AD. Functional and population genomic divergence within and between two species of killifish adapted to different osmotic niches. ***Evolution*** 68:63-80. *Special Section: Adaptation to environmental stress and change*

2014 Berdan EL†, **Kozak GM**†, Ming R, Rayburn AL, Kiehart R*, Fuller RC. Insight into genomic changes accompanying divergence: genetic linkage maps and synteny of *Lucania goodei* and *L. parva* reveal a Robertsonian fusion. ***G3: Genes, Genomes, Genetics*** 4:1363-1372.

2013 **Kozak GM**, Head ML, Lackey ACR, Boughman JW. Sequential mate choice and sexual isolation in threespine stickleback species. ***Journal of Evolutionary Biology*** 26:130-140.

2013 Head ML, **Kozak GM**, Boughman JW. Female mate preferences for male body size and shape promote sexual isolation in threespine sticklebacks. ***Ecology and Evolution*** 3:2183-2196.

2012 **Kozak GM**, Boughman JW. Plastic responses to parents and predators lead to divergent shoaling behavior in sticklebacks. ***Journal of Evolutionary Biology*** 25:759-769.

2012 **Kozak GM**, Rudolph AB*, Colon BL*, Fuller RC. Postzygotic isolation evolves before prezygotic isolation between fresh and saltwater populations of the rainwater killifish, *Lucania parva*. ***International Journal of Evolutionary Biology*** *Mechanisms of Speciation***.**

2012 Verzijden MN, Servedio MR, ten Cate C, **Kozak GM**, Boughman JW, Svensson E. The impact of learning on sexual selection and speciation. ***Trends in Ecology & Evolution*** 27:511-519. *Highly cited paper (top 1%), Web of Science, 93 citations.*

2012 Gregorio O*, Berdan EL, **Kozak GM**, Fuller RC. Reinforcement of male mate preferences in sympatric killifish species *Lucania goodei* and *L. parva.* ***Behavioral Ecology & Sociobiology*** 66:1429-1436.

2011 **Kozak GM,** Head ML, Boughman JW. Sexual imprinting on ecologically divergent traits leads to sexual isolation in sticklebacks. ***Proceedings of the Royal Society B: Biological Sciences*** 278: 2604-2610. *Featured on Science Now, Faculty of 1000, and Science News.*

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PUBLICATIONS *cont.*

† *indicates co-first authors*; * *undergraduate co-authors*

2009 **Kozak GM**, Reisland MA, Boughman JW. Sex differences in mate recognition and conspecific preference in species with mutual mate choice. ***Evolution*** 63:353-365.

2009 **Kozak GM**, Boughman JW. Learned conspecific mate preference in a species pair of sticklebacks. ***Behavioral Ecology*** 20:1282-1288.

2008 **Kozak GM**, Boughman JW. Experience influences preference for shoal members in a species pair of sticklebacks. ***Behavioral Ecology*** 19:667-676.

TEACHING EXPERIENCE

Biostatistics, *Biology 430/530, UMass-Dartmouth,* 2019-2020

Introductory Biology Laboratory, *Biology 131, UMass-Dartmouth,* 2018-2019

Introduction to Arts and Sciences, *CAS 101, UMass-Dartmouth,* 2019

Other

Co-Instructor, "Seminar in Molecular Evolution: Genomic Analysis" *Biology 196, Tufts University,* 2014

Marsico Visiting Lecturer, "Animal Behavior" *Biology 3410, University of Denver,* 2015

Guest Lecturer, "Evolution" *Biology 143, Tufts University,* 2014-2017

Guest Lecturer, "Evolution" *Integrative Biology 302, University of Illinois,* 2013

Teaching Assistant, "Introductory Biology", *Zoology 151, University of Wisconsin,* 2007-09

Teaching Assistant, "Evolution of Behavior", *Zoology 425, University of Wisconsin,* 2006

FELLOWSHIPS, GRANTS AND AWARDS

Grants

2012	National Institute of Mathematical and Biological Synthesis Short Term Visitor	$2,500
2008	National Science Foundation Doctoral Dissertation Improvement Grant Learned Social and Mate Recognition in Species Pairs of Sticklebacks (IOS-0807469)	$12,000
2004	University Research Grant, University of Wisconsin-Madison	$4,000

Fellowships

2009	American Association of University Women Dissertation Fellowship	$20,000
2005	National Science Foundation Predoctoral Graduate Research Fellowship	$90,000
2004	University Fellowship, University of Wisconsin-Madison	$18,000