

Andrius Jonas Dagilis, PhD

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CURRENT POSITION Postdoctoral Fellow in the Matute Lab,
Department of Biology, University of North Carolina at Chapel Hill

RESEARCH INTERESTS Mathematical Modeling of Speciation, Hybridization and Introgression
Evolution of Structural Variation, Sex Chromosomes, Sexually Antagonistic Selection

EDUCATION **2019** PhD in Ecology, Evolution and Behavior
University of Texas at UT Austin, Supervising Professor: Mark Kirkpatrick
2013 B.S. in Biology with Honors
Trinity University (San Antonio, TX)

PEER REVIEWED PUBLICATIONS **2022** **A. Dagilis**, J. Coughlan, A. Serrato-Capuchina, H. Elias, D. Peede, L. Isbell, D. Castillo, B. Cooper, D. Matute. *Population structure and introgression among recently differentiated Drosophila melanogaster populations*, *Molecular Biology and Evolution*, *in Press*
A. Dagilis, D. Peede, J. Coughlan, G. Jofre, E. D'Agostino, H. Mavengere, A. Tate, D. Matute. *A need for standardized reporting of introgression: Insights from studies across eukaryotes*, *Evolution Letters*, *in Press*.
A. Dagilis *What inversion lengths can tell us about their evolution*, *Molecular Ecology*, 31(13) 3513-3515. (News and Views)
A. Dagilis, J. Sardell, M. Josephson, Y. Su, C. Peichel, M. Kirkpatrick. *Searching for signatures of sexually antagonistic selection on stickleback sex chromosomes*, *Philosophical Transactions of the Royal Society B*, 377(1856) 20210205.
2020 **A. Dagilis**, D. Matute. *Incompatibility between emerging species*, *Science*, 368 (6492),710-711. (News and Views)
2019 **A. Dagilis**, M. Kirkpatrick, D. Bolnick *Epistasis and the evolution of hybrid fitness*, *PLoS Genetics*, 15(5) e1008125.
2018 J. M. Sardell, C. Cheng, **A. Dagilis**, A. Ishikawa, J. Kitano, C.L. Peichel, M. Kirkpatrick. *Sex differences in recombination in sticklebacks*, *G3: Genes|Genomes|Genetics*, g3-200166.
E. Kuzmin, B. VanderSluis, [...], **A. Dagilis**, [...], C. Boone. *Systematic analysis of complex trigenic interactions*, *Science*, 360(6386).
2016 **A. Dagilis**, M. Kirkpatrick. *Prezygotic isolation, mating preferences, and the evolution of chromosomal inversions*, *Evolution*, 70(7) 1465-72.
2012 K. Livingstone, P. Olofsson, G. Cochran, **A. Dagilis**, K. MacPherson, K. Seitz. *A stochastic model for the development of Bateson-Dobzhansky-Muller incompatibilities that incorporates protein interaction networks*, *Mathematical Biosciences*, 238(1) 49-53.

SELECT TALKS **2022** *The fitness of an introgressing haplotype*, PEQG
2021 *15 Years of introgression studies: quantifying gene flow across Eukaryotes*, Evolution Introgression across the tree of life, Virtual AmNat meeting at Asilomar
2020 *Speciation rate variation due to loss of co-adapted genes*, The Allied Genetics Conference
2018 *An empirically grounded model of speciation*, Joint Congress on Evolutionary Biology
2017 *The spectrum of epistasis and hybrid fitness*, SMBE
2016 *Prezygotic isolation, mating preferences and the evolution of chromosomal inversions*, Evolution
2012 *A stochastic model of Dobzhansky Muller incompatibilities*, Evolution

OTHER TALKS & GUEST LECTURES **2021** invited seminar for Speciation & Introgression Discussion Group:
The fitness of hybrids and genes over the course of speciation, UC Berkeley
guest lecture for Behavioral Biology course:
Sexual Selection, University of Georgia Marine Institute
invited seminar for Molly Schumer lab meeting:
The Common Causes of Speciation and Introgression, Stanford University
2020 invited seminar for Lunch Bunch seminar series:
Sexually antagonistic selection in stickleback, UNC Chapel Hill
2019 invited seminar for EDGE seminar series:
The evolution of hybrid fitness, University of Georgia
public lecture at Long-View Micro School:
Ligers and tigons and pizzly bears, oh my, Austin, TX
2018 invited seminar for UNC Lunch Bunch:
Evolution of hybrid fitness, UNC Chapel Hill
guest lecture for Honors Biology:
Speciation, UT at Austin
2017 public lecture for Science Under the Starst:
Ligers and tigons and pizzly bears, oh my, Austin, TX

HONORS & AWARDS **2021-** Tri Institutional Molecular Mycology and Pathogenesis Training Program (\$66,000/year)
2018 SSE Hamilton Award Nominee
2016 Integrative Biology TA Award (\$700)
2013 Integrative Biology Recruitment Fellowship (\$33,550)
2012 Mach Fellowship (\$3,000)
2012 Jacob Uhrich Scholarship (\$1,500)
2009–2012 International Student Scholarship (\$35,000 per year)

OUTREACH & SERVICE **2020-** Safe Spaces Committee in the UNC Biology Department
2014-2019 Science Under the Stars Organizing Committee
2015-2019 Biology Graduate Symposium Organizing Committee
2013- Organizer for various workshops and reading groups
2009-2013 Trinity University Biology Club (council member)
Reviewer for articles in: Evolution, American Naturalist, PLoS Genetics, PNAS,
Molecular Ecology, Molecular Biology and Evolution, Nature Ecology & Evolution,
PeerJ, PCIEvolBio, Heredity, eLife

OTHER TRAINING **2021** SSE Public Policy Workshop, Virtual
2021 Faculty Mentor Training for Biomedical Researchers, UNC Chapel Hill
2020 Responsible Conduct of Research Training, UNC Chapel Hill
2018 Diversity and Inclusivity Training, UT Austin, TX