

Daniel Shaw

PhD candidate
Department of Genetics
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EDUCATION:

- 2017- PhD candidate, Department of Genetics, University of Georgia, Athens, GA
 Advisor: Mike White
- 2012-2016 B.S. (Genetics), Department of Genetics and Biochemistry, Clemson University,
 Clemson, South Carolina

PUBLICATIONS

Published

- 2021 Nath S, **Shaw DE.**, White MA. 2021. Improved contiguity of the threespine
 stickleback genome using long-read sequencing, *G3 Genes|Genomes|Genetics*,
 Volume 11, Issue 2, February 2021

Manuscripts in progress

- 2022 **Shaw DE.**, White M.A. The evolution of gene regulation on sex chromosomes. In
 review. *Trends in Genetics*.
- 2022 **Shaw DE.**, White MA. Elevated substitution rates in sex-linked *cis*-regulatory
 regions on the recently evolved sex chromosomes of threespine stickleback fish.
 In preparation for *Molecular Biology and Evolution*.

AWARDS

- 2022 Graduate Student Presentation Award. South Eastern Population Ecology and
 Evolutionary Genetics Conference, Eatonton, Georgia.
- 2022 American Genetics Association Evolutionary, Ecological, and Conservation
 Genomics (EECG) Research Award. Amount: \$6000
- 2021 Finalist. W. D. Hamilton Award for Outstanding Graduate Student Presentation.
 Society for Study of Evolution.

2021 UGA Department of Genetics. Mary Case Award for Excellence in Teaching. Amount \$1000

2019-2020 NIH T32 training grant awardee

2019-2020 University of Georgia Graduate School GRO fellowship

2019 Society for the Study of Evolution Graduate Research Excellence Grant- R.C. Lewontin Early Award. Amount: \$2500

2019 UGA Department of Genetics. Robin Hightower Award for Innovative Research. Amount: \$667

2019 UGA Genetics Graduate Student Association Travel Award for Professional Development. Amount: \$1000

2019 University of Georgia Graduate School Travel Award. Amount: \$450

2019 Poster award 3rd Place, Genetics Department Retreat, University of Georgia. Amount: \$50

2019 Society for the Study of Evolution Public Policy Fellowship. Amount: \$1113

2018 UGA Genetics Graduate Student Association Travel Award for Professional Development. Amount: \$1000

PRESENTATIONS/POSTERS

Oral Presentations

2022 **Shaw, DE.**, White, MA (March 2022) *Signatures of positive selection on Y chromosome cis-regulatory elements in stickleback fish*. South Eastern Population Ecology and Evolutionary Genetics Conference, Eatonton, Georgia.

2021 **Shaw, DE.**, White, MA (October 2021) *Elucidating the role of natural selection in sex chromosome regulatory evolution*. University of Georgia. EDGE seminar.

2021 **Shaw, DE.**, White, MA (July 2021) *Positive selection of regulatory regions drives gene expression evolution on recently evolved sex chromosomes in threespine stickleback fish*. Society for Molecular Biology and Evolution 2021. Symposium: The evolution of regulatory elements and its role in phenotypic variability and speciation.

2021 **Shaw, DE.**, White, MA (June 2021) *Positive selection of regulatory regions drives gene expression evolution on recently evolved sex chromosomes in threespine stickleback fish*. Evolution 2021. *Finalist for W.D. Hamilton Award for Outstanding Graduate Student Presentation.

2019 **Shaw, DE.**, Shanfelter, AF., White, MA (October 2019) *Differential accessibility and expression on recently evolved sex chromosomes*. South Eastern Population Ecology and Evolutionary Genetics Conference, Clemson, South Carolina

2019 **Shaw, DE.**, Shanfelter, AF., White, MA (June 2019) *Evolution of chromatin accessibility on sex chromosomes*. Evolution 2019, Providence, Rhode Island

2018 **Shaw, DE.**, White, MA (October 2018) *Meiotic sex chromosome inactivation in threespine stickleback fish*. South Eastern Population Ecology and Evolutionary Genetics Conference, Pembroke, Virginia

Posters

2021 **Shaw, DE.**, White, MA. (May 2021) *Stage-specific gene expression reveals active transcription of recently evolved sex chromosomes in meiosis*. University of Georgia Developmental Biology Alliance Retreat. Athens, Georgia.

2020 **Shaw, DE.**, White, MA. (July 2020) *Stage-specific gene expression of Y-linked duplications throughout threespine stickleback spermatogenesis*. Society of Molecular Biology and Evolution Conference, Quebec City, Quebec, Canada. Poster accepted. Canceled due to COVID-19.

2019 **Shaw, DE.**, White, MA. (April 2020) *Stage-specific gene expression throughout threespine stickleback spermatogenesis revealed through single-cell RNA-seq*. The Allied Genetics Conference, Washington, District of Columbia. Poster accepted. Canceled due to COVID-19.

2019 Jones, W., **Shaw DE.**, White, MA. (October 2019) *Characterizing meiotic gene expression in threespine stickleback fish*. South Eastern Population Ecology and Evolutionary Genetics Conference, Clemson, South Carolina

2019 **Shaw, DE.**, White, MA. (August 2019) *Differential chromatin accessibility on the recently evolved sex chromosomes of stickleback fish*. Genetics department retreat, University of Georgia, Athens, Georgia

2018 **Shaw, DE.**, White, MA. (August 2018) *Evolution of the chromatin landscape across the young threespine stickleback Y chromosome*. Genetics department retreat, University of Georgia, Athens, Georgia

2018 **Shaw, DE.**, White, MA. (July 2018) *Evolution of the chromatin landscape across the young threespine stickleback Y chromosome*. International Conference on Stickleback Behavior and Evolution, Kyoto, Japan

2018 **Shaw, DE.**, White, MA. (May 2018) *Evolution of the chromatin landscape across the young threespine stickleback Y chromosome*. Population Evolutionary and Quantitative Genetics Conference, Madison, Wisconsin

RESEARCH MENTORING

2019-2020 Undergraduate Thesis Mentor. Department of Genetics. Student: William Jones
Thesis Title: *Characterizing meiotic gene expression in threespine stickleback fish*.

DIVERSITY, EQUITY, AND INCLUSION

2021-2022 Certificate in Diversity and Inclusion. Office of Institutional Diversity. University of Georgia. In progress.
 2020-2021 Mentor. Advocates for Anti-Racism in the Life Sciences
 2013-2015 Mentor. Clemson University First Generation Students Program

TEACHING

2022 Introductory Biology Lab (BIOL 1108L). Teaching Assistant. Spring Semester.
 2021 Evolutionary Biology Lab (GENE 4230). Writing Intensive Program Teaching Assistant. Fall Semester. Instructor rating: n/a
 2021 Honors Evolutionary Biology (GENE 3000H). Writing Intensive Program Teaching Assistant. Fall Semester. Instructor rating: n/a
 2021 Introductory Biology Lab (BIOL1108L). Teaching Assistant. Spring Semester. Instructor rating: 4.933/5
 2020 Introductory Biology Lab (BIOL1108L). Teaching Assistant, Fall Semester. Instructor rating: 4.92/5
 2019 Genetics (GENE 3200). Teaching Assistant. Spring semester. Instructor rating: n/a

OUTREACH/SERVICE

2021-2022 President. Graduate Students and Postdocs in Science. University of Georgia.
 2021 Lead Organizer. Graduate Student Career Panel.
 2021 Clarke Middle School STEM Fair booth representative
 2021 Search Committee Graduate Student Representative. UGA Vice President for Research Search Committee.
 2021 Vice President. Graduate Students and Postdocs in Science. University of Georgia.
 2021 Volunteer. Athens Clarke-County community highway cleanup.
 2020 Special Award Judge. Georgia Science and Engineering Fair.
 2019-2020 Co-President. Genetics Graduate Student Association.
 2019 Organizer and volunteer. UGA STEMzone community outreach booth.
 2019-2020 Organizer and volunteer. Athens Clarke-County community highway cleanup.
 2019 Society for Study of Evolution Representative at American Institute of Biological Sciences Congressional Visits Day in Washington D.C.
 2018-2019 Volunteer. Athens Tutorial Program.
 2018-2019 Judge. Georgia Science and Engineering Fair.
 2018-2019 Paper reader and judge. Georgia Junior Science & Humanities Symposium.
 2018 Travel grant committee member. Genetics Graduate Student Association.

WORK EXPERIENCE

2016-2017 Greenwood Genetic Center, Molecular Laboratory Technologist
2014-2015 Clemson University, Undergraduate Research Assistant. PI: Rajandeep Sekhon

PROFESSIONAL DEVELOPMENT

2020-2021 University of Georgia Graduate School Emerging Leaders Program
2020 UGA Innovation Gateway, Innovation-Corp Start-up Co-Entrepreneurial Lead.
2019 American Institute of Biological Sciences Policy Bootcamp
2018 ComSciCon Atlanta. Science communication workshop.

PROFESSIONAL MEMBERSHIPS

2021-Current Society of Systematic Biologists
2020-Current Society for Molecular Biology and Evolution
2019-Current Society for the Study of Evolution
2018-Current Genetics Society of America