

# Daniel Shaw

Department of Genetics

University of Georgia  
Athens, GA 30602 USA

Email: Daniel.Shaw@uga.edu

## EDUCATION:

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

## AWARDS

- 2021            Finalist. W. D. Hamilton Award for Outstanding Graduate Student Presentation.  
                  Society for Study of Evolution.
- 2021            Mary Case Award for Excellence in Teaching. Amount \$1000
- 2020-2021      University of Georgia Graduate School Emerging Leaders Program
- 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            Robin Hightower Award for Innovative Research. Amount: \$667
- 2019            Genetics Graduate Student Association Travel Award for Professional  
                  Development. Amount: \$1000
- 2019            University of Georgia Graduate School Travel Award. Amount: \$450
- 2019            Poster award 3<sup>rd</sup> Place, Genetics Department Retreat, University of Georgia.  
                  Amount: \$50
- 2019            Society for the Study of Evolution Public Policy Fellowship. Amount: \$1113
- 2018            Genetics Graduate Student Association Travel Award for Professional  
                  Development. Amount: \$1000

## PUBLICATIONS

In preparation

- 2021            Shaw DE, White MA. Positive selection on cis-regulatory regions drives gene  
                  expression evolution on young sex chromosomes in threespine stickleback fish.  
                  In prep.

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

## PRESENTATIONS/POSTERS

### *Oral Presentations*

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.

2020 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 preview talk abstract accepted. Canceled due to COVID-19.

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.

- 2020 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

## OUTREACH/SERVICE

- 2021-2022 President. Graduate Students and Postdocs in Science. University of Georgia.
- 2021 Graduate Student Representative. UGA Vice President for Research Search Committee.
- 2021 Vice President. Graduate Students and Postdocs in Science. University of Georgia.
- 2021 Volunteer. 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. Community Highway Cleanup.
- 2019 Judge. Georgia Science and Engineering Fair.
- 2019 Society for Study of Evolution Representative at American Institute of Biological Sciences Congressional Visits Day in Washington D.C.
- 2019 Paper reader and judge. Georgia Junior Science & Humanities Symposium.
- 2018-2019 Volunteer. Athens Tutorial Program.
- 2018 Judge. Georgia Science and Engineering Fair.
- 2018 Paper reader. Georgia Junior Science & Humanities Symposium.

2018 Genetics Graduate Student Association travel grant committee member.  
2013-2016 Mentor. Clemson First Generation Students Program

## TEACHING

2021 Graduate Laboratory Assistant, Introductory Biology (BIOL1108). Spring Semester. Instructor rating: 4.933/5  
2020 Graduate Laboratory Assistant, Introductory Biology (BIOL1108). Fall Semester. Instructor rating: 4.92/5  
2019 Teaching Assistant, Genetics (GENE 3200). Spring semester. Instructor rating: n/a

## MENTORING

2021 Advocates for Anti-Racism in Life Sciences Mentor. Student: Kimani Smith  
2019-2020 Genetics undergraduate thesis mentor. Student: William Jones

## WORK EXPERIENCE

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

## PROFESSIONAL DEVELOPMENT

2020-2021 University of Georgia Graduate School Emerging Leaders Program  
2020 UGA Innovation Gateway, Innovation-Corp Co-Entrepreneurial Lead.  
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