

EDUCATION

Duke University
PhD candidate, Genetics and Genomics
Research Advisor: Ryan Baugh
NSF Graduate Research Fellow

August 2015 - present
Durham, NC

University of Georgia
Bachelor of Science, Genetics
Bachelor of Science, Mathematics
Cumulative GPA: 3.97/4.00, *summa cum laude* with highest honors
Research Advisors: Kelly Dawe, Daniel Promislow
Goldwater Scholar

August 2011 - May 2015
Athens, GA

PUBLICATIONS

- Webster AK**, Jordan JM, Hibshman JD, Chitrakar R, Baugh LR. 2018. Transgenerational Effects of Extended Dauer Diapause on Starvation Survival and Gene Expression Plasticity in *Caenorhabditis elegans*. *GENETICS*. Early online.
- Hibshman JD, Doan AE, Moore BT, Kaplan REW, Hung A, **Webster AK**, Bhatt DP, Chitrakar R, Hirschey MD, Baugh LR. 2017. *daf-16*/FoxO promotes gluconeogenesis and trehalose synthesis during starvation to support survival. *eLife*. 6.
- Burton NO, Furuta T, **Webster AK**, Kaplan RE, Baugh LR, Arur S, Horvitz HR. 2017. Insulin-like signaling to the maternal germline controls progeny response to osmotic stress. *Nature Cell Biology*. 19(3), 252-257.
- Webster AK**, Cieszewski R, Promislow DEL. 2014. The Role of Age-Structure in the Optimal Germination Fraction of Seeds. *Mathematical And Computational Forestry & Natural-Resource Sciences (MCFNS)*, 6(1), 26-35 (10).

PRESENTATIONS

Talks

- Duke Epigenetics and Epigenomics Program Seminar (2017): "Proximal and transgenerational effects of long-term dauer diapause in *C. elegans*"
- Duke Development, Cell and Molecular Biology Department Seminar (2017): "Transgenerational effects of long-term dauer arrest in *C. elegans*"
- Duke Genetics Department Retreat (2017): "Regulation of gene expression during starvation in *C. elegans*"
- Duke Genetics Student Seminar (2017): "Transgenerational effects of dauer arrest in *C. elegans*"
- CURO Symposium at University of Georgia (2015): "Molecular and Genetic Analysis of the Ab10 Meiotic Drive Haplotype in Maize and Teosinte"
- CURO Symposium at the University of Georgia (2014): "Breaking Mendel's Laws: The Role of Abnormal Chromosome 10 in Meiotic Drive"

Posters

- Population, Evolutionary, and Quantitative Genetics Conference, Madison, Wisconsin (2018): "Ancestral life history and natural genetic variation shape starvation survival in *C. elegans*"
- International *C. elegans* Conference (2017): "Transgenerational effects of long-term dauer arrest"
- Aging, Metabolism, Stress, Pathogenesis, and Small RNAs in *C. elegans* Conference at the University of Wisconsin-Madison (2016): "Understanding persistent effects of L1 arrest, dauer arrest, and dietary restriction in the context of a fluctuating environment"
- Plant Center Retreat (2014): "Abnormal Chromosome 10 Exhibits Meiotic Drive in *Zea mays parviglumis*"

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- CURO Symposium at the University of Georgia (2014): "Breaking Mendel's Laws: The Role of Abnormal Chromosome 10 in Meiotic Drive"
- Summer Undergraduate Research Experience Symposium at Emory University (2012): "Characterization of *sig-1*-mediated Transgene Desilencing in *C. elegans*"

SELECTED AWARDS

- NSF Graduate Research Program Fellowship (2015-2020)
- Preparing Future Faculty Program (2018-2019)
- Outstanding Undergraduate Thesis Award - One genetics major chosen (2015)
- Cynthia Kenyon Outstanding Undergraduate Award – One genetics major chosen (2015)
- Joy P. Williams Science Award – One of two honors students (2015)
- Goldwater Scholarship (2014)

MENTORING AND OUTREACH

- Mentor two undergraduates on research projects in lab (2017)
- Duke Outreach in Genetics and Genomics (DOinGG), Member (2015 - present)
 - SciTech Expo NC Museum of Natural Science (2018)
 - Duke Alumni Weekend (2016, 2018)
 - Creekside Elementary Science Night (2018)
 - NC Elementary Science Olympiad (2017)
 - "Lean In" Women in Science NC School of Science and Math (2017)
 - DNA Day 5K (2016, 2017)
 - Little River Elementary Science Night (2016)
 - Campout Carnival at Duke (2015, 2016)
 - Museum of Life and Science (2016)
- Duke Genetics Retreat Committee, Member (2017)
- Duke Genetics Recruitment Committee, Member (2015-2016)
- MathCOUNTS Outreach, Member (2011-2012), Head Coach (2012-2014), Executive Board (2014-2015)
- Journal of Young Investigators, Associate Editor (2012-2013), Biology Research Editor (2013-2015)

updated July 31, 2018