

CORY A. WELLER

PhD Student, Ecology and Evolutionary Biology at the University of Virginia

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EDUCATION

University of Virginia, Charlottesville VA

August 2013 - Present

PhD Coursework and Research, Biology

Gustavus Adolphus College, Saint Peter MN

August 2006 - December 2010

Bachelor of Arts, Biology

HONORS AND AWARDS

- 2019 Recipient of **Student Travel Award** from UVA Biology to present at the 60th Annual *Drosophila* Research Conference
- 2019 Awarded **Distinguished Teaching Fellowship** for one half year tuition, stipend, and summer funding to design and instruct a new upper-level biology course in Spring 2019, **Introduction to Computational Biology**.
- 2018 Recipient of **Graduate Student and Postdoc Association Research Award** to attend *Presenting Data and Information* workshop by Dr. Edward Tufte.
- 2018 **First place** at the first annual *Virginia Hacking Diversity* Data Science challenge.
- 2018 Recipient of **Student Travel Award** from UVA Biology to present at the Population Ecology and Quantitative Genetics Conference
- 2015 Awarded **ARCS Fellowship** (Achievement Rewards for Collegiate Scientists) to fund one half year of tuition and stipend. Presented research at the National Academy of Sciences in Washington, D.C.

PUBLICATIONS

Weller, C., and M. Wu. 2015. **A generation-time effect on the rate of molecular evolution in bacteria**. *Evolution*. 69:643–652.

MANUSCRIPTS IN PREPARATION

Weller, C., and A. Bergland. 2019. **Accurate, ultra-low coverage genome reconstruction and association testing in randomly outbred mapping populations**. *To be submitted to Genetics in March 2019*

Weller, C., and A. Bergland. 2019. **Natural variation underlying genetic architecture of desiccation resistance in *Drosophila melanogaster***. *In Prep*.

PRESENTATIONS

- 2018 **Accurate, ultra-low coverage imputation and association studies in Hybrid Swarm mapping populations.** Poster presentation at the Genetics Society of America: Population Ecology & Quantitative Genetics Conference.
- 2017 **The Hybrid Swarm: whole genome association studies from ultra-shallow sequencing of a large, randomly outbred population.** Poster presentation at the Genetics Society of America Annual *Drosophila* Research Conference.
- 2015 **Comparative phylogenomics reveals spore-formation slows bacterial evolution.** Oral presentation at the University of Virginia Huskey Graduate Research Exhibition.
- 2015 **A microbial model of a two-step infection process.** Poster presentation at the National Academy of Sciences, Washington, D.C.
- 2010 **Slot limit fishing and Pomoxis (Crappie) population behavior.** Poster presentation with A. Tilman at the Gustavus Adolphus College Celebration of Creative Inquiry.

TEACHING, TRAINING, AND MENTORSHIP

Instructor of Record, University of Virginia

- 2019 Spring **Introduction to Computational Biology.** Working in the framework of a genome-wide association study, students learn to manipulate files via a command-line, access online repositories, transform and analyze data, and produce efficient graphical displays.
- 2017 Summer **Introduction to Organismal and Evolutionary Biology.** Designed and delivered lecture material, implemented laboratory sections and oversaw two teaching assistants.

Undergraduate Research Mentor, University of Virginia

- 2016–Present Collaborated with three undergraduate students across topics including experimental design, software implementation, literature review, and grant writing.

Center for Teaching Excellence, University of Virginia

- 2018 As a **Course Design Institute participant**, learned effective methods of developing a goals-oriented syllabus over a five-day workshop.
- 2017 & 2018 As a **Facilitator** for the **Teaching as a Graduate Student Workshop**, co-led a section of Teaching the First Day and Troubleshooting Teaching Challenges. In 2017, served as the sole science representative for a panel discussing Balancing Teaching with Life as a Graduate Student.
- 2015–Present As a **Participant** in the **Tomorrows Professor Today Program**, developed course curricula, conducted classroom teaching observations, attended pedagogy workshops, and discussed theory of learning in a group setting.

TEACHING, TRAINING, AND MENTORSHIP (CONTINUED)

Graduate Student Laboratory Instructor, University of Virginia

Human Anatomy & Physiology 2014SU; 2014FA; 2016SU; 2016FA

Organismal & Evolutionary Biology 2014SP; 2015SP; 2015SU

Introduction to Cell Biology 2013FA

American Red Cross, Saint Paul, Minnesota

2011-2013 As a **Lab Technician and Biomedical Instructor**, performed training of new employees and conducted annual procedural competency checks for members of the blood product quarantine and labeling laboratory.

MEMBERSHIP AND SERVICE

2016–Present As **Co-coordinator of UVA QueerGrads**: acted as liaison between the UVA LGBTQ center and graduate student body. Assisted in organizing social events and tabled for the community at Cville Pride. Moderated panel discussions of LGBTQ issues in academia.

2013–Present As a Member of the **Biology Graduate Student and Postdoc Association (GSPA)**: assisted the committee in carrying out its social, academic, and administrative duties pertaining to biology department affairs.

2015–2018 As **Chair of the Graduate Student Council Research Committee**: scheduled committee meetings, planned exhibition format in collaboration with university administrators, allocating a \$10,000+ budget to coordinate an exhibition including over 100 graduate student participants.

2015–2018 As **Graduate Student Council Representative for Biology**: ensured that the graduate students of the biology department were informed about council activities, and student concerns were voiced to the Graduate School of Arts and Sciences. Assisted with coordinating and facilitating yearly new student orientation.

2016–2017 As a member of the **UVA Biology Graduate Committee**: provided graduate student perspectives on issues such as curriculum planning and graduate student applications & recruitment.

2015–2016 As **President of UVA Biology GSPA**: Organized annual department retreat, coordinated social events, fundraised for travel awards, acted on student award panels, and assist in organizing graduate student recruitment.

2015–2016 As a **Mentor at the Day in the Life Program**: held weekly one-on-one meetings with a local high school student to provide homework help, develop study habits, assist with finding summer opportunities, and discuss career options and planning.

ACADEMIC MEMBERSHIPS

- 2016–Present Genetics Society of America (GSA).
- 2015–Present Society for the Study of Evolution (SSE).
- 2015–Present American Association for the Advancement of Science (AAAS).
- 2015–Present Achievement Rewards for Collegiate Scientists (ARCS) Scholar.