

SARAH TRIPPLEHORN
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EDUCATION

University of Pittsburgh Pittsburgh, PA
PhD Candidate, Biology 2018-Present

- GPA 3.588/4.0

Courses: Genomics, Nucleic Acids, Biostatistics, Genetics of Model Organisms, Biological Sciences Seminar

BS: Biology, Concentrations: Molecular Biology, French 06/2014-05/2018
University of Dallas Irving, TX

- GPA 3.571/4.0

Relevant Undergraduate Courses & Labs: Advanced Genetics, Advanced Microbiology, Molecular Biology, Microbiology, Genetics, Immunology, Cell Structure & Function, Biological Chemistry, Anatomy, Evolutionary Biology, Biostatistics, Calculus II, Organic Chemistry I+II

FELLOWSHIPS & AWARDS

T32 Fellowship Award, NIH 08/2020-08/2021

- Year-long graduate training fellowship awarded to support research and professional development, including professional & research mentorship.

Dean's List, University of Dallas: Fall 2014, Spring 2016 – Spring 2018. **Honor Roll:** Spring & Fall 2015

Trustee Scholarship 2014-2018

- Annual scholarship obtained that covered half of undergraduate tuition costs at University of Dallas.

Selected Participant & Scholarship: O'Hara Chemical Sciences Institute Summer 2014

- Earned tuition, room & board to take an accelerated General Chemistry I+II lecture and lab course.

PUBLICATIONS

Untitled Paf1 Complex Review. S. Tripplehorn, A. Francette, K. Arndt. *Journal of Molecular Biology.*
Submission January 2021. *In preparation.*

"Overlapping dinucleosomes are regulated by esBAF in embryonic stem cells". Authors: K Troy, S Tripplehorn, SJ Hainer. *In preparation.*

RESEARCH

Graduate Student Researcher – *University of Pittsburgh, Biological Sciences*

Dr. Karen Arndt 08/2018-Present

- Implementing genetic, biochemistry, and genomics techniques to address how chromatin remodeling and transcription machinery cooperate to prevent dysregulation of transcription in budding yeast.

Dr. Sarah Hainer 02/2019-Present

- Designing a project to investigate the conserved mechanism of chromatin remodeling and active transcription in mammalian cells.
- Performed high-throughput sequencing to investigate genome-wide prevalence of a novel chromatin structure. Manuscript from this work in preparation.

Research Assistant – *University of Dallas Biology Department*

Dr. William Cody – Microbiology 06/2017-05/2018

- Independently established multi-generational coevolution of infectious disease study with *Pseudomonas aeruginosa* and *Drosophila melanogaster*.

Dr. Deanna Soper – Evolutionary Behavior 01/2017-05/2017

- Participated in genetic diversity of sex research project with snails in preparation for study on sexual reproduction in conjunction with parasitic prevalence.

TEACHING

Teaching Assistant – Microbiology, Disease and Society, *University of Dallas* 08/2016-12/2017

- Prepared all required media and materials in preparation for lab each week.
- Assisted and advised students with lab experiences to meet course objectives.

CONFERENCES

Epigenetics & Chromatin, Cold Spring Harbor Laboratory. Attended. Virtual. 09/2020

The Allied Genetics Conference. Attended. Virtual. 04/2020

Chromatin and Epigenetic Regulation of Transcription, Penn State University. Attended. 07/2019

American Society for Microbiology, Texas Spring Branch Meeting. Poster. 03/2018

- **Sarah Triplehorn**, Natalie Sandlin, Sophia Ostertag, S. Ana Henriquez, Angela Moore, Deanna Soper, William L. Cody. “Coevolution of host-pathogen interactions in a *Pseudomonas aeruginosa* chronic infection model of *Drosophila melanogaster*.”

GRADUATE SERVICE

Secretary, Graduate Student Organization. 2020-Present

- Prepare minutes and organize GSO meetings for Dept. of Biological Sciences GSO.

Organizer, Career Seminar Series. 2020-Present

- Organize and host monthly career seminar speakers with advanced biology careers for trainees in the department.

UNDERGRADUATE SERVICE

Treasurer/Member, American Society for Microbiology 2015-2018

- Managed club funds to host scientific speakers who promote scientific literacy within the community.

Treasurer/Mentor, UD Society for Women 2015-2018

- Engaged in one-on-one mentorship at local high school. Cultivated relationships with students to promote student welfare.