

Christina Tancredi

Graduate Student

Cordes Lab, Department of Biology, Temple University Email:
c.tancredi@temple.edu

EDUCATION

Temple University, Philadelphia, Pennsylvania

Graduate student seeking a Ph.D. in Biology
Advisor: Dr. Erik Cordes

Aug 2022 – Present

University of Virginia, Charlottesville, Virginia

GPA: 3.981 – B.S. in Biology *with Distinction*

Aug 2017 – Dec 2020

PROFESSIONAL ACADEMIC AND RESEARCH EXPERIENCE

Ph.D. Student in the Cordes Lab

Performing video analysis on recent and historical video to determine relative abundance of *Lophelia pertusa* in the Gulf of Mexico over time.

Aug 2023 – Present

Graduate Student TA for Biology 1111 Lab (Intro Bio for Majors)

Taught students basic introductory biology: prepared PowerPoints, demonstrated dissections, graded assignments, and gave feedback and suggestions for improving the course that will be implemented in Summer 2024.

Aug 2023 – Present

Ph.D. Student in the Center for Biodiversity Lab

Performed molecular biology experiments on *Arrhyton* (island racer snakes) including PCR, sequencing, and alignments. Used Geneious and Mega software to align sequences and construct phylogenetic trees. Also completed historical biogeographical analysis and some taxonomic comparisons of different species of *Sphaerodactylus* (dwarf geckos) found in the Caribbean.

Aug 2022 – Aug 2023

Laboratory and Research Technician in the Zeichner Lab

Performed molecular cloning experiments, made vaccines from killed whole cell genome-reduced *E. coli* bacteria, as well as tested the vaccines in a mouse model. Frequently practiced bacterial cell culture techniques, molecular cloning techniques, protein expression analysis via Western Blot and flow cytometry

Feb 2021 – May 2022

Immunology Grader

Graded short answer submissions from student exams and provided feedback about the answers for the Spring 2021 Semester of Introduction to Immunology, supervised by Dr. David Kittlesen

Feb 2021 – May 2021

Summer Diabetes Research Internship

Analyzed clinical data from patients with Type 1 Diabetes during NIH-NIDDK-funded (paid) internship; ended the internship with a presentation in front of the research mentors, and poster presentation after the internship at the Diabetes Technology Meeting conference in Bethesda, MD

May 2019 – Aug 2019

TRAININGS AND CERTIFICATIONS

Flow Cytometry

Trained on using the FACSCalibur traditional flow cytometer, and the spectral Aurora flow cytometer, also trained on hardware compensation and analysis of data in FCS Express

Nov 2021

SKILLS

Lab Skills and Techniques

Experience performing protein and DNA gel electrophoresis, data analysis, flow cytometry, using micropipettes, performing western blots and cloning techniques such as sequence design, digestion, gel isolation, ligation, bacterial transformation; cell culture techniques such as making LB broth cultures, LB agar plate cultures, and glycerol stocks; some animal work with mice (performing post-mortem sample collections such as bronchoalveolar lavage, spleen collection, and nasal wash, isolated serum from blood)

Software

Experience with FCS Express for analyzing flow cytometry data, using ImageJ/ImageJ Fiji for analyzing Western Blots and measuring features in an image; frequent use of Microsoft Word, Excel, and PowerPoint; proficient with Data Analysis with R from Biostatistics class and Geneious software for plasmid design, DNA alignment.

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Language - Spanish

Basic comprehension of Intermediate Spanish: took Elementary to Advanced Intermediate Spanish from August 2017 – May 2019

LEADERSHIP AND SERVICE

Biology Graduate Student Society (BGSS) Secretary **Sep 2023 – Present**

Recorded meeting minutes and served on the executive board of BGSS. Gave suggestions for social events and improvements for the society.

College of Science and Technology Graduate Student Organization DEI Representative **Aug 2023 – Present**

On the executive board of the College of Science and Technology Graduate Student Organization (CST GSO) at Temple University. I am responsible for making sure that our organization is accessible and inclusive, especially with respect to its events.

CST DEIB Committee Member **Aug 2023 – Present**

In combination with my position on the executive board of CST GSO, I am the graduate student representative of the College of Science and Technology's Diversity, Equity, Inclusion, and Belonging committee which is likewise committed to making the college more accessible, equitable, inclusive, and diverse. For this I attended meetings and gave suggestions to faculty about addressing barriers to equity.

Cavalier Symphony Orchestra Social Chair **Apr 2020 – Apr 2021**

Planned social events such as jeopardy night and murder mystery night online due to COVID-19; and led on the Executive Board as Social Chair from April 2020 – April 2021; performed with Cavalier Symphony Orchestra Main Philharmonic Orchestras Fall 2019 – Spring 2020, until the pandemic shut down in-person meetings; general member of the orchestra from September 2019 – April 2021

Medical Services Volunteer Through Madison House (Volunteer Organization) **Oct 2018 – Mar 2020**

Provided refreshments to patients in waiting rooms or inpatient oncology rooms along with comfort rounds at UVA Hospital for approximately three hours each week during the Fall and Spring Semesters

HONORS AND AWARDS

Presidential Fellowship at Temple - Awarded to outstanding applicants **2022**

Graduated with Distinction - Awarded to biology graduates of University of Virginia with 3.4 GPA or higher **2020**

Valedictorian of High School Class - Recipient of William P. Cole Jr. Alumni Medal of Excellence **2017**

PUBLICATIONS AND PRESENTATIONS:

1. Brooks, B., **Tancredi, C.**, Song, Y., Mogus, A. T., Huang, M. L. W., Zhu, H., ... & Zeichner, S. L. (2022). Epstein-Barr Virus and Human Herpesvirus-6 Reactivation in Acute COVID-19 Patients. *Viruses*, 14(9), 1872.
2. Portillo, K., **Tancredi, C.**, Ekhlaspour, L., Buckingham, B., Brown, S., Kovatchev, B. (2019, November, 15). *Associations between Demographic Characteristics, Socioeconomic Status, and Glycemic Outcomes in the International Diabetes Closed-Loop (IDCL) Trial*. Diabetes Technology Meeting, Bethesda, MD.
<https://doi.org/10.1177/193229681989765>