Chris Tancredi

Graduate Student
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EDUCATION

Temple University, Philadelphia, Pennsylvania **Aug 2022 – Present**
Doctoral student in Biology
Advisor: Dr. Erik Cordes

University of Virginia, Charlottesville, Virginia **Aug 2017 – Dec 2020**
GPA: 3.981 – B.S. in Biology *with Distinction*

PROFESSIONAL ACADEMIC AND RESEARCH EXPERIENCE

Graduate Student TA for Biology 1111/1911 Lab (Temple University) **Aug 2023 – Present**
Instructing biology lab: preparing and presenting PowerPoints, lecturing, demonstrating dissections and experiments, administering exams, grading assignments, developing course resources, campaigning for accessible course materials, implementing DRS accommodations, hosting office hours, and overseeing Peer Lab Assistants.

Ph.D. Student in the Cordes Lab (Temple University) **Aug 2023 – Present**
Analyzing over a decade of research cruise video footage to establish long term monitoring of changes in *Lophelia pertusa* health in the Gulf of Mexico. Developing and refining a method of measuring percent cover, collaborating with software engineers. Mentoring and managing a team of undergraduate researchers.

Ph.D. Student in the Center for Biodiversity Lab (Temple University) **Aug 2022 – Aug 2023**
Constructed a phylogenetic tree for *Arrhyton* (island racerlets) using mitochondrial DNA in MEGA X. Executed PCR, designed primers, and performed DNA sequence alignment with Geneious. Completed historical biogeographical analysis and morphological comparisons of different species of *Sphaerodactylus* (geckolets).

Laboratory and Research Technician in the Zeichner Lab (University of Virginia) **Feb 2021 – May 2022**
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.

Immunology Grader (University of Virginia) **Feb 2021 – May 2021**
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.

Summer Diabetes Research Internship (University of Virginia) **May 2019 – Aug 2019**
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.

TRAINING AND CERTIFICATIONS

Safe Zone Training **Nov 2024**
Attending Safe Zone Training discussing identity, history, and intersectionality within the LGBTQ+ community, as well as promoting advocacy and inclusion.

Teaching in Higher Education Certificate **May 2024**
Completed Teaching in Higher Education seminar in Fall of 2023, learned best practices for teaching adult students, then completed the associated practicum with reflective log and discussions with a faculty mentor Erik Cordes in Spring of 2024 while teaching BIOL 1111 Lab.

Flow Cytometry **Nov 2021**
Trained in using the FACSCalibur traditional flow cytometer, and the spectral Aurora flow cytometer, also trained on hardware compensation and analysis of data in FCS Express.

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**

SKILLS

Lab Skills and Techniques
Proficiency with protein and DNA gel electrophoresis, data analysis, flow cytometry, performing western blots and molecular biology 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; 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 and Global Change Science classes, and Geneious software for plasmid design, DNA alignment. Proficient in measuring percent cover of corals in Tator (video analysis) software.

Language - Spanish
Basic comprehension of Intermediate Spanish: Elementary – Advanced Intermediate Spanish August 2017 – May 2019.

LEADERSHIP AND SERVICE

Biology Graduate Student Society (BGSS) Secretary **Sep 2023 – Present**
Serving on the executive board of BGSS. Recording meeting minutes, giving suggestions for social events, and planning activities. Creating an accessible Graduate Student Guidebook with information and linked resources for incoming and current graduate students.

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. 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. I attend meetings and give suggestions to faculty about addressing barriers to equity, especially with respect to graduate students.

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 comfort rounds and refreshments at the University of Virginia Hospital throughout the Fall and Spring semesters.

PUBLICATIONS AND PRESENTATIONS:

1. Brooks, B., **Tancredi, C.**, Song, Y., Mogus, A. T., Huang, M. W., Zhu, H., Phan, T. L., Zhu, H., Kadl, A., Woodfolk, J., Jerome, K. R., & Zeichner, S. L. (2022). Epstein-Barr Virus and Human Herpesvirus-6 Reactivation in Acute COVID-19 Patients. *Viruses*, *14*(9), 1872. https://doi.org/10.3390/v14091872
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