

Education

- Fall 2019 - May 2025* **Vanderbilt University**, Nashville, TN
Ph.D. Candidate, Department of Anthropology
Area of Concentration: Biological Anthropology
- December 2021* **Vanderbilt University**, Nashville, TN
M.A. Anthropology
Area of Concentration: Biological Anthropology
Cumulative GPA: 4.0
- May 2019* **College of William & Mary**, Williamsburg, VA
B.S. Biology and Anthropology
Summa cum Laude
Cumulative GPA: 3.9

Funding

- 2024 Vanderbilt GLI Dissertation Enhancement Grant (\$2000)
- 2024 Vanderbilt Arts and Sciences Travel Award (\$1000)
- 2024 Vanderbilt Evolutionary Studies Initiative Travel Grant (\$500)
- 2023 Vanderbilt GLI Professional Development and Training Grant (\$891)
- 2022 Vanderbilt Evolutionary Studies Initiative Pilot Grant (\$5000)
- 2022 Vanderbilt Arts and Sciences Summer Research Award (\$5000)
- 2022 Vanderbilt Arts and Sciences Travel Award (\$500)
- 2018 Nathan Altshuler Fellowship for Summer Research in Anthropology (\$800)

Professional Experience

2019 - Present **Genetic Anthropology and Bio-Cultural Studies Lab, Vanderbilt University**

Graduate work under Dr. Jada Benn-Torres

- Proficient in methodologies for DNA extraction and the preparation of sequencing libraries in ancient and modern contexts
- Employed genetic methods to answer questions about population structure and genetic ancestry in the Caribbean
- DNA Extraction, PCR amplification, and Pyrosequencing methods for Y Chromosome genotyping and methylation analysis
- Cleaning, Sample preparation, Extraction, and Library Prep protocols for sequencing of human and microbial DNA from ancient samples
- Bioinformatics analysis of ancient metagenomic datasets to identify ancient pathogens and assess oral microbiome composition and function

Summer 2023 **Geophysics Field Assistant, Vanderbilt Institute for Spatial Research**

- Use of GPR analysis to locate and interpret features associated with civil war entrenchments in Nashville, TN

2017 - 2019 Undergraduate Research Assistant, William and Mary Institute for Historical Biology

Undergraduate Research under Dr. Michael Blakey

- Osteological analysis and documentation of fragmentary skeletal and dental remains.
- Visualization of dental microwear using HIROX microscopy
- Comparative analysis of musculoskeletal markers using the African Burial Ground Database in SPSS
- Edited and formatted manuscripts and transcribed recordings from academic conferences.
- Acted as an administrator for the “Remembering Slavery Resistance and Freedom Project” Facebook page, which educates the local community about events related to the history and commemoration of resistance and enslaved people in Eastern Virginia.

2016 - 2019 William & Mary Cellular and Developmental Genetics Lab

Undergraduate Research under Dr. Matthew Wawersik

- Lab work focused on the genetic mechanisms involved in sex determination and maintenance in *Drosophila melanogaster*
- *Drosophila* mating, dissection, fixation, immunostaining, and imaging protocols using Confocal microscopy.
- Utilized immunofluorescence and RNAi knockdown strategies to visualize the impact of target genes on development in larval and adult *Drosophila* gonads.

2015 - 2016 Sharpe Community Scholars Program

Freshman CBPR Research under Dr. Monica Griffin

- Community-based participatory research on eco-therapy and the use of green space to combat academic stress on college campuses.
- Creation of surveys and statistical analysis to gauge public knowledge and perceptions related to research questions.
- Work featured in the *William and Mary News* and *Bristol Herald Courier*.

Publications

Winful, T., McCormack, K., Mueller, E., Chen, L., Integra (COPI), L. C. P. S., Clemente, M. R., & Torres, J. B. (2023). Exploring the legacy of African and Indigenous Caribbean admixture in Puerto Rico. *American Journal of Biological Anthropology*. <https://doi.org/10.1002/ajpa.24814>

Conference Presentations

Accepted abstract - 2024 Society of American Archaeology Meeting

New Orleans, LA

Poster: “Ancient Oral Metagenomes from La Real: Insights into Health and Infectious Disease Across the Middle Horizon Period”

2024 Southeastern Bioanthropology Interest Group (SEBIG)

UNC-Chapel Hill, Chapel Hill, NC

Podium Presentation: “Microbial Signatures of Health and Diet in a Pre-Hispanic Andean Community: Ancient Oral Microbiomes from La Real”

2022 American Association of Biological Anthropologists Meeting

Denver, CO. and Virtual

Poster: “Genetic Approaches to the Paternal Ancestry of Contemporary Afro-Puerto Rican Communities”

2021 American Association of Physical Anthropologists Meeting

AAPA-AAAG Joint Symposium: Thinking beyond the lab? Anthropological Geneticists' Response to the COVID-19 Pandemic and the Summer of civil unrest

Symposium Talk: "Future Directions in Anthropological Pedagogy: Insights into the Role of Technology in teaching anthropological genetics from the Covid-19 Pandemic"

2020 Graduate Research Symposium

College of William and Mary, Williamsburg, VA [Virtual]

Poster: "Genetic Perspectives on the Paternal Ancestry of Afro-Puerto Rican Communities"

2019 Undergraduate Science Research Symposium

College of William and Mary, Williamsburg, VA

Poster: "The Role of Chignin in the Developing and Adult *Drosophila* Testis"

2018 Triangle Consortium for Reproductive Biology

National Institute of Environmental Health Sciences, Durham, NC

Poster: "Analysis of Chinmo's Role in *Drosophila* Sex Maintenance"

2018 Undergraduate Science Research Symposium

College of William and Mary, Williamsburg, VA

Poster: "Analysis of Chinmo Regulation and Stem Cell Sex Maintenance"

2016 Sharpe Engaged Scholars Academic Symposium

College of William and Mary, Williamsburg, VA

Poster: "Ecotherapy and Stress"

Teaching Experience

2019 - Present Graduate Teaching Assistant

Vanderbilt University, Department of Anthropology

Courses:

- Death and the Body (Spring 2023)
- Introduction to Cultural Anthropology (Fall 2022)
- Introduction to Biological Anthropology (Spring 2022; Spring 2021)
- Evolutionary Genetics (Fall 2021)
- Human Adaptation and Disease (Fall 2020)
- Anthropology of Healing (Spring 2020)
- Human Osteology (Fall 2019)

Summer 2021 Vanderbilt Programs for Talented Youth- Peer Mentor

- Course: Anthropology in Action: How Research is Applied to Advocacy and Activism

Professionalization and Language Skills

- Vanderbilt University Certificate in College Teaching
- NCFDD Writing Bootcamp
- Vanderbilt Microbiome Analysis Workshop Certificate
- Transmitting Science BEAST2 Workshop Certificate

- Intermediate French language proficiency

Honors and Awards

- Vanderbilt Anthropology Outstanding Teaching Assistant Award (2022)
- Harold Sterling Vanderbilt Award
- Russell G. Hamilton Scholar
- Center for Public Anthropology Award for Op-ed Writing (2015)

Professional Memberships

- Graduate Women in Science - Nashville chapter (2023 -)
- Society for American Archaeology (2023 -)
- American Association of Anthropological Genetics (2021 -)
- American Association of Biological Anthropology (2021 - 2023)

Service to Discipline

- Peer review for Nature Communications
- Student volunteer at AABAs (2022)

Extracurricular University Service

2022 - Present **Vanderbilt Student Volunteers for Science**

2019 - Present **Vanderbilt Anthropology Graduate Student Association**

- Graduate Student Council Representative (2023 -2024)
- President (2022-2023)
- Secretary (2019-2022)

2019 - Present **Vanderbilt Evolutionary Studies Initiative**

- Interdisciplinary organization of trainees interested in research and science outreach associated with evolutionary science.