

1478 Union Rd, Gainesville, FL, 32611

□ (904)-504-9628 | **■** bnurczyk@ufl.edu | **☆** | **回** bnurczyk2 | **□** bnurczyk

"Tell me, what is it you plan to do with your one wild and precious life?" - Mary Oliver

Education

University of Florida Gainesville, FI Aug. 2023 - Aug 2027

B.S. IN STATISTICS (GPA: 3.70)

Minors in Health Disparities in Society, Mathematics

· Certificate in Medical Geography

Skills

Back-end Express Front-end React

Programming Node.js, Python (scikit-learn), C++, R (tidyverse, tidymodels), SPSS, SAS, LaTeX, SQL (PostgreSQL), Tableau

DevOps

Work Experience_

Warrior Aquatic, Translational, and Environmental Research (WATER) Lab

University of Florida, Gainesville, FL

UNDERGRADUATE LABORATORY ASSISTANT, (MENTOR: DR. TRACIE BAKER, PHD)

Aug. 2024 - Present

- Supported toxicological modeling of aquatic species through precise fish husbandry and sample preparation protocols, ensuring reliable data integrity in UF's Aquatic Pathobiology Lab including feedings, egg cleanings, and euthanasia.
- Conducted hypothesis testing and Bonferroni-corrected post-hoc analysis in R for Pb(II)-induced behavioral and mortality outcomes.
- Applied PERMANOVA for multivariate hypothesis testing and analyzed genera-level abundance patterns in Florida Manatee microbiome data.
- · Leveraged R for gene overlap analysis in a longitudinal zebrafish toxicogenomics study, uncovering persistent transcriptomic signatures from larval exposure to adult stages.

NIH's Florida Summer Institute in Biostatistics and Data Science (SIBDS)

Florida Atlantic University, Boca

Raton, FL May 2025 - July 2025

2025 SUMMER COHORT, (MENTOR: DR. KATHERINE FREEMAN-COSTIN, PHD)

- · Selected as one of 16 students nationwide for a competitive 6-week, 180+ hour NIH-funded training in statistical programming, epidemiology, and applied data science using R, SAS, IBM SPSS, and Python.
- · Presented key findings to faculty and peers; engaged in career panels, research ethics workshops, and mock interviews with public health
- · Built an interactive R Shiny tool to evaluate Lasso vs. tree-based logistic regression for stroke prediction in an adult population, under mentorship of Dr. Lun-Ching Chang of FAU Statistics, viewable here.

Spatial Epidemiology and Ecology Research (SEER) Lab

University of Florida, Gainesville, FL

Undergraduate Research Assistant (Mentors: Dr. Jason K. Blackburn PhD & Dr. Hannah Herrero, PhD)

May 2024 - May 2025

- Streamlined geospatial data workflows using the Google Earth Engine Python API to automate Landsat image retrieval, compute vegetation indices, and conduct Tasseled Cap PCA, doubling data acquisition efficiency.
- · Modeled anthrax endemicity in West Texas white-tailed deer using ecological niche modeling methods (GARP, boosted regression trees) and cloud-derived environmental covariates in R.
- · Conducted spectral mixture and geospatial analysis of PlanetScope, Rapideye, and Landsat imagery to examine outbreak-associated landscape phenology using R, Python, and ArcGIS.
- · Supported data acquisition and visualization for the Cervidae Health Research Initiative (CHeRI) with custom ArcGIS Dashboards and backend integration.

Extracurricular Activity

American Statistical Association, Undergraduate Chapter

University of Florida Nov. 2011 - PRESENT

· Attended biweekly meetings and workshops from both industry leaders in Statistics and student mentors.

Participated in 2025 ASA Datafest sponsored by UF's Biostatistics Department winning Best OVerall.

JULY 31, 2025 CLAUD D. PARK · CURRICULUM VITAE **One Health Student Association**

University of Florida

COMMUNICATIONS DIRECTOR Aug. 2024 - May 2025

Designed digital content and managed outreach, expanding visibility and engagement for interdisciplinary health initiatives. Increased potential
member interaction.

• Organized biweekly newsletters for 130+ subscribers.

Honors & Awards

INTERNATIONAL

Finalist, COMAP Mathematical/Interdisciplinary Contest in Modeling (MCM/ICM) - Recognized as one of 343 finalist teams out of 21,000+ globally (top 2%)

2025 Institute for Operations Research and the Management Sciences (INFORMS) Award Designation, COMAP Mathematical/Interdisciplinary Contest in Modeling (MCM/ICM)

DOMESTIC

Best Overall, ASA DataFest 2025 (UF Undergraduate Division) — Selected among 100+ participants modeling Savills commercial real estate data.

Department of Biostatistics, University of Florida

Presentation

2025 ASPRS Mid-South Regional Conference

Oak Ridge National Laboratory, Oak Ridge, Tennessee

CO-AUTHOR, < LANDSCAPE OR FOUNDER EFFECT?>

Apr. 2025

2025 Society of Toxicology Annual Meeting

CO-AUTHOR, < NANOPLASTIC-INDUCED ALTERATIONS IN TRANSCRIPTOMIC & APICAL ENDPOINTS IN ZEBRAFISH LARVAE THAT PERSIST INTO ADULTHOOD>

Orlando, FL Mar. 2025

2025 Emerging Pathogens Institute Research Symposium

PRESENTER FOR <GEOPHYSICAL DRIVERS OF ANTHRAX: A REMOTE SENSING APPROACH TO SOIL TEXTURE CLASSIFICATION TO INFORM OUTBREAK PREDICTION>

Gainesville, FL Apr. 2025

Presented research poster on a cloud-based random forest classification workflow for soil texture mapping, highlighting the potential of fine-scale spatial upscaling to address ecological fallacy in anthrax outbreak modeling.

2024 Department of Geography Fall Symposium

Gainesville, FL

PRESENTER FOR <SPATIAL INVESTIGATION OF PARTIAL SEASON PHENOLOGY IN THE TEXAS ANTHRAX TRIANGLE WITH THREE

Aug. 2024

VEGETATION INDICES AND A TASSELED-CAP TRANSFORMATION>

• Presented on research pertaining to partial-seasonal relationships and epizootic/enzootic spread of Anthrax among White-tailed deer populations on a ranch in West Texas.