

Lynn Nguyen

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EDUCATION

University of Kansas M.A., Ecology and Evolutionary Biology	Lawrence, KS Expected Graduation: May 2026
Denison University B.S., Biological Studies B.A., Data Analytics	Granville, OH May 2024 GPA: 3.68, <i>Cum Laude</i>
Duke University Visiting Marine Studies Student	Beaufort, NC August - December 2022

HONORS & AWARDS

2024	Research Award - Biology Department Denison University
2022	Margaret Ann Watkin Scholar - Outstanding Juniors in Biology Department
2020 - 2024	Dean's List

EXPERIENCES

Denison University Senior Capstone, Data Analytics , Gene Expression Patterns in Diabetes and Nonalcoholic Fatty Liver Disease	August 2023 - May 2024
<ul style="list-style-type: none">Investigated gene expressions of 192 Nonalcoholic Fatty Liver Disease (NAFLD) patients with diabetes, discovered 17 differentially expressed genes and 24 associated pathways to disease progression and diabetes statusDefended capstone to committee	
Denison University Senior Thesis Research, Biology , Phylogenetics and Taxonomy Analysis in <i>Synalpheus</i> Shrimps	August 2023 - May 2024
<ul style="list-style-type: none">Developed Ultraconserved Elements markers for different species of shrimps to provide genome-wide picture based on their genetics and reconstructed phylogenetic treeGenerated workflow using Linux and Python for genes enrichment and low-coverage readsPerformed in-silico testing in <i>Synalpheus</i> shrimps through DNA extraction with developed markers	
Ohio State University Biostatistics Research Assistant , Gene Expression Analysis in Older Acute Myeloid Leukemia Patients	May 2023 - May 2024
<ul style="list-style-type: none">Examined gene expression profiling of 295 elderly cancer patients using R/RStudioDeveloped a multivariable model predicting recovery rate of patients based on gene expression and 16 clinical characteristics, reaching accuracy of 72% on test set and finding significant transcripts/genes that contribute directly to patient's overall survival rateProduced survival plots through survival analysis workflows and reported with stakeholders	
Denison University Research Assistant , Gene Flow and Microsatellite Genes Examination of Milkweed	January - May 2023
<ul style="list-style-type: none">Evaluated the structure and gene flow of milkweed in Minnesota, Ohio, and Virginia through microsatellite genesFound results that align and support analysis of the high-dimensional approach of the project, open novel approaches for further studies	

Duke University

August - December 2022

Student Research, Gene Expression Analysis of *Prochlorococcus*

- Interpreted, analyzed, and generated workflow for the analysis of gene expression response of the cyanobacteria population to temperature change on different days
- Discovered 22 significant transcripts related to the adaptation of the cyanobacteria
- Built foundation of the workflow in identifying overexpressed genes for this population and project

ABSTRACTS & PRESENTATIONS

L. Nguyen and S. TC Chak. Development of ultraconserved element markers for phylogenomics in Caridean shrimps. Presentation at National Conference for Undergraduate Research, 2024.

L. Nguyen and K. J. Archer. Gene Expression Analysis in Older Acute Myeloid Leukemia. Presentation at Ohio State University Symposium and Denison University Symposium, 2023.

S. Brauner*, A. C. McCall, E. Mohl, **L. Nguyen**, S. Bell, Z. Shellenbarger, and M. Whipp. Microsatellite Variation and Local Adaptation in Common Milkweed. Abstracts and Presentations at Botany 2023. Abstract 586.

LEADERSHIP & ACTIVITIES**Columbus Zoo and Aquarium**

January - May 2023

Data Consultant, Cougar and Africa Area

- Analyzed cougar behaviors using descriptive statistics and regression techniques to identify trends and key factors impacting their well-being, as well as built efficient workflows, and conducted data cleaning for 3-year datasets
- Transformed data-driven insights into 10+ actionable recommendations for enhancing living environment of cougars, including habitat constructions

Denison University

August - December 2023

Teaching Assistant, Eukaryotic Cell Biology

- Prepared materials and samples of weekly laboratory section, for both dry lab and wet lab sessions
- Assisted peers in coding and experiment procedures during and after lab classes

Denison University

January - May 2023

Teaching Assistant, Calculus I & II

- Led weekly office hours and provided individual tutoring to 50 students in three class sections

Denison University

January - May 2022

Teaching Assistant, Virology

- Assisted in the preparation of materials and samples for the weekly laboratory section
- Maintained the cleanliness of the laboratory and hygiene practices

SKILLS & INTERESTS

Technical: Python, R & RStudio, LaTeX, Unix

Laboratory: Gene sequencing (PCR, Illumina, Nanopore), basic lab techniques

Campus Involvements: Vietnamese Student Association, Homestead Community, Denison Badminton Club, RedTech Audio and Events (Denison University), Community Science (Duke University)