



NHI X LUU


Silver Spring, MD 20906

 About Me

 Nhi Luu

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 nluu1

 (240) 584-1439

EDUCATION

UMBC at the Universities at Shady Grove

B.S., Applied Biotech (TLST) - Bioinformatics; GPA: 4.0

Rockville, MD

Expected: Fall 2023

University at Maryland - College Park

Microbiology - Credits: 32

College Park, MD

Jan 2018 - May 2019

Montgomery College

A.S., Life Sciences; GPA: 3.83

Rockville, MD

Dec 2017

TECHNICAL SKILLS & KNOWLEDGE AREAS

- **Software:** ClustalX2, BLAST/NCBI, iTOL/Dendroscope, Jalview, ImageJ, MS Office/Teams
- **Programming Language:** Python, R, Linux/Command-line, Latex
- **Laboratory:** Immunofluorescence, RT-PCR, transformation, cells and spheroids culture, protein purification methods, microbiology techniques, gel electrophoresis, other staining techniques (HE, ORO, gram stain)
- **Instrumentation:** Spectrophotometer, Nanodrop, Fluorescent/Confocal microscopy, pipetting

PROGRAMMING EXPERIENCE

Universities at Shady Grove

Rockville, MD

Student Projects - Bioinformatics

08/2022- Present

- Construct phylogenetic trees and analyze bacterial taxonomy based on different molecular markers using NCBI/BLAST and alignment tools (ClustalX2, Jalview, iTOL)
- Conduct bioinformatics/WGS workflow: NGS sequence alignments, variant calling

Student Contributor - Extra Curricular

04/2022- Present

- Conduct descriptive statistics on Cardiology dataset using R/Python on Blood-work analysis (GitHub)
- Update and monitor version controls of scripts on GitHub project repositories
- Lead group project on data analysis and visualization of Maryland Census data in Python using API and web scraping

RESEARCH EXPERIENCE

Adaptive Phage Therapeutics, Inc.

Gaithersburg, MD

Phage Hunting Intern

08/2022- Present

- Utilize aseptic microbiology techniques to enrich, isolate, and purify hunted phages against multi-drug resistant bacterial strains
- Communicate resources and findings among colleagues in team and agile independent projects
- Perform and adhere to cGMP, GDP in BSL-2 laboratory, safely and efficiently utilize lab procedures, instruments and tools
- Participated in planning and supporting training for new phage hunting interns

Montgomery College – Biology Department

Rockville, MD

Research Assistant – Wound Healing Model Research

07/2021- 10/2022

- Establish optimal conditions for spheroid co-cultures in 3D to observe their interactions and patterns
- Perform tissue culture, scratch wound assay, immunofluorescence, HE staining on different cell lines for image and statistical analysis
- Developed and optimized lab protocols for future research projects on spheroids and viability with drugs

Student Assistant – Novel Solutions to Wound Healing Project

01/2017- 12/2017

- Independently presented a 20-page Literature Review Presentation on the *Development of a Full-Thickness Human Skin Equivalent Derived from TERT-Immortalized Keratinocytes and Fibroblasts*
- Pioneered ideas to a published literature review on Springer: *Skin wound Healing: Refractory Wounds and Novel Solutions* (first online 24 May 2018)