# NHI X LUU

Silver Spring, MD 20906

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## EDUCATION

**UMBC at the Universities at Shady Grove** — **Rockville, MD**
*B.S., Biotech (TLST) - Bioinformatics; GPA: 4.0* — *Expected: Fall 2023*

**University at Maryland - College Park** — **College Park, MD**
*Credits: 32* — *Jan 2018 - May 2019*

**Montgomery College** — **Rockville, MD**
*A.S., Life Sciences; GPA: 3.83* — *Dec 2017*

## TECHNICAL SKILLS & KNOWLEDGE AREAS

- **Laboratory**: Immunofluorescence, RT-PCR, transformation, cells and spheroids culturing/fixation, protein purification methods, microbiology techniques, gel electrophoresis, other staining techniques ( HE, ORO, gram stain)
- **Programming Language**: Python, R, Unix/Linux/Command-line environment, Latex
- **Instrumentation**: IQ/OQ/PQ, Spectrophotometer, Nanodrop, Fluorescent/Confocal microscopy, proper pipetting
- **Software**: ImageJ, MS Office/365, BLAST/NCBI, Zeiss Zen

## 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 bacterial strains
- Communicate well-thought-out findings and resources among colleagues in agile projects
- Perform and adhere to cGMP, GDP in BSL-2 laboratory, safely and efficiently utilize procedures, instruments and tools

**Montgomery College – Biology Department** — **Rockville, MD**
**Research Assistant** – Wound Healing Model Research — *07/2021- Present*

- 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)

## PROGRAMMING EXPERIENCE

**Universities at Shady Grove** — **Rockville, MD**
**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

**Student Projects** - Universities at Shady Grove — *08/2022- Present*

- Conduct Maryland Census data-driven projects in Python using API
- Propose project on annotation and 3D restructuring of proteins at transcriptomic/proteomic level

## MEMBERSHIPS

- Biotech Club - UMBC Shady Grove — *02/2022 - Present*
- Societies of Asian Scientists and Engineers (UMD Chapter) — *07/2018- 02/2019*