

LAUDAN NIKOObAKHT

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EDUCATION

University of Maryland, College Park, MD

Bachelor of Science in Computational Neurolinguistics, May 2022

Thesis: Role of Syntax in Language Processing in the Brain

EXPERIENCE

Undergraduate Researcher, Division of Molecular Biology..... May 2019- Present

Food and Drug Administration, Laurel, MD

- Investigation with next generation sequencing (NGS) into the detection and identification of viruses isolated from food for outbreak response.

Frontend Developer.....May 2020- Present

LugoCorp (Software Development and Consulting Firm), College Park, MD

- Provide web & mobile services to clients, develop products using a variety of technologies in the industry.

Summer Researcher, Laboratory of Single Molecule Biophysics.....June 2015- September 2016

National Institutes of Health, National Heart, Lung, and Blood Institute, Bethesda, MD

- Summer 2015: Size separation of sub-20 nm nanodiamonds for cell imaging. Field flow fractionation was explored for separating different size nanoparticles.
- Summer 2016: Topoisomerase IV binding affinity through DNA binding assay. Impact of topography (winding/unwinding) of DNA on its binding with topoisomerase enzymes was investigated.

PUBLICATIONS

Y. Seol, T. Litwin, L. Kim, **L. Nikoobakht**, N. Osheroff, K.C. Neuman, "ATP-Dependent Topology Discrimination by Type IIA Topoisomerases: Implications for below Equilibrium Topology Simplification", *Biophysical J.* 2018, 114, p85a–86a

L. Nikoobakht, V. Brown, J. Mead, "Sequence of myo-inositol-1-phosphate synthase EST clone 62LN1.15", *National Center for Biotechnology Information*, 2016. www.ncbi.nlm.nih.gov/nucest/JZ917219.1

L. Nikoobakht, V. Brown, J. Mead, "Sequence of Thioredoxin EST clone 62LN2.15", *National Center for Biotechnology Information*, 2016. www.ncbi.nlm.nih.gov/nucest/JZ917220.1

SKILLS & PROJECTS

Programming: Java, C in Linux environment, MIPS Assembly, R, Minitab, SAS, Matlab, HTML, and CSS.

Johns Hopkins University- Project (Summer 2016)

Extracted DNA from *Landoltia Punctata* (Duckweed); sequenced DNA and ran the NCBI database of NIH to identify roles of the proteins (specifically in filtration).

Mount Saint Mary's University- Project (Summer 2016)

Performed a series of experiments (Fluorescence microscopy, luciferase assay, ELISA assay and qPCR) to study how LPS shows that NFκB regulates genes in the immune response and is vital to finding treatments for various immune conditions caused by dysregulation of NFκB.

PRESENTATIONS

Laudan Nikoobakht, Diana Ngo, Dr. Zhihui Yang "Evaluation of Municipal Wastewater Treatment on Viral Reduction Efficiencies and Resulting Impacts on Sentinel Oysters", Bioscience Day, University of Maryland, College Park, November 2019.

Laudan Nikoobakht, Dr. Christine McCauslin, "The Effective Role of Lipopolysaccharides in Inflammation", Mount Saint Mary's University, MD, June 2016.

Laudan Nikoobakht, "Landoltia Punctata", Johns Hopkins University, Baltimore, MD, April, 2016.

EXTRACURRICULAR ACTIVITIES

- **Technica** World's Largest All Women & Underrepresented Genders Hackathon Spring 2019- Present
Co-Director of Logistics
- **University of Maryland Iranian Students' Foundation** Fall 2017- Present
Vice President of Programming, Historian
- **Maryland Center for Women in Computing** Spring 2019- Present
- **Society for Neuroscience** Spring 2021- Present
- **Association for Women in Science** Spring 2021- Present
- **200 Hour Registered Yoga Teacher (RYT)** Summer 2021- Present
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