Nada Stojanovic

484-767-0054 | nas225@lehigh.edu | nadjastojanovic | nada-stojanovic

EDUCATION

Lehigh University, Bethlehem, PA — May 2025
B.S. in Computer Science and Engineering (GPA: 3.90)

Bootham School, York, UK — May 2021
A levels: Maths (A*), Further Maths (A*), Physics (A*), Psychology (A*) and EPQ (A*)

RESEARCH

Research Assistant at the Neural Engineering Lab, **Lehigh University** — November 2023 - Present
- Use MATLAB for data analysis and visualization of neural response to visual stimuli in mice while translating complex biological responses into meaningful insights.
- Conduct in-depth analysis of literature on in vivo studies with the aim of providing confirmation of novel in vitro experimental findings.

Machine Learning Research Fellow, **TU Dortmund** — June 2023 - August 2023
- Used time series analysis to develop a supervised anomaly detection model for industrial screwdriving data.
- Designed and completed a research experiment focusing on the identification and characterization of artificially induced anomalies, and their identifiability among the time series data.

WORK EXPERIENCE

Head Teaching Assistant for Applied Engineering Computer Methods, **Lehigh University** — January 2022 - Present
- Lead a team of undergraduate teaching assistants to effectively support students while fostering a positive learning environment.
- Facilitate weekly robotics and engineering labs, and assist students in programming robots with Python and Raspberry Pi.

Data Analysis Manager at *Taylor Gym,* **Lehigh University** — June 2022 - December 2023
- Used Excel and R for data analysis and visualization of gym attendance data to create informative reports and metrics.
- Worked directly with Campus Athletics to aid in decision making in regards to operational planning, gym hours, and staffing.

Grader for *Introduction to Programming,* **Lehigh University** — August 2022 - December 2023
- Facilitated weekly lab sessions and assisted students with Java classwork.
- Graded homework assignments, classwork and exams for a section of 25 students.

TECHNICAL PROJECTS

Self-Driving RC Car — June 2023 - August 2023
- Use Raspberry Pi 4 and Python to train a behavioral cloning and a reinforcement learning model using Keras, PyTorch and TensorFlow, and implement them in a remote-controlled toy car.
- Perform visualization of the data and analysis of the model using TensorBoard and matplotlib.

Save Tuba Mobile App Development, **Lehigh University** — January 2022 - December 2022
- Develop a gamified mobile application for teaching children in Almaty, Kazakhstan about sustainability and lead app development efforts in React Native.

RELEVANT COURSEWORK

- Programming: Data Structures & Algorithms (Java), Systems Software (C/C++), Data Science (R), Programming Language Implementation (Rust), Robotics (RaspberryPi), Computer Organization and Architecture, Design and Analysis of Algorithms
- Mathematics: Calculus, Discrete Mathematics and Algorithms, Linear Methods, Probability and Statistics

SKILLS

- Languages/Frameworks: Java, Python, C++, C, Rust, R, MATLAB, HTML, CSS, JavaScript, React
- Machine Learning: PyTorch, TensorFlow, TensorBoard, Keras, scikit-learn, Vowpal Wabbit

AWARDS

- *Full Student Scholarship,* **HMC Projects** — September 2019
  Received a full scholarship worth £60,000 per year, covering tuition, room and board at a private boarding school in the UK.
- *Ruhr Fellowship,* **University Alliance Ruhr** — March 2023
  Awarded fellowship for language and cultural German study followed by a technical internship in pursuit of furthering international cultural exchange and fostering collaboration between Germany and the US.