Clark Van Lieshout

Columbus, OH 43202
clarkvan333kkyy_7w2@indeedemail.com
+1 913 788 0333

Willing to relocate: Anywhere
Authorized to work in the US for any employer

Work Experience

Tutor
Ohio State Office of Diversity and Inclusion - Columbus, OH
April 2021 to Present

• Built a robust Python/C++ interface for OpenBT, a framework for implementing Bayesian regression tree models/predictions for multivariate datasets.
• Created functions (summarize, variable activity, save/load, etc.) to catalog Bayesian fit information.
• Published a Python package, with detailed documentation, enabling users to easily perform fits.

Tutor
Ohio State Office of Diversity and Inclusion - Columbus, OH
August 2020 to Present

• Assisted and mentored students in college Math and Physics courses. Covered topics such as calculus, relativity, electricity & magnetism, conservation laws, and vector analysis.

Data I/O Winner
NFL Data Visualization - Columbus, OH
November 2020 to November 2020

• Used R to gain insights about a vast NFL play-by-play dataset - expected points added, analyzing each team's efficiency, etc. Learned how to make easily-understandable plots in R.
• Selected as best presentation: explained the significance of teams' year-over-year yards gained.

Two-Time Hackathon Winner: ColumBUS App, Friendly Lends Site
COTA, Mobikit - Columbus, OH
October 2019 to November 2020

• Collaborated on a mobile app to streamline Columbus buses using location data and user check-ins.
• Set up and tested geofences across operating systems for multiple bus routes in the app.
• Presented to the President/CEO of COTA and to Mobikit, a startup interested in funding development.
• Friendly Lends: Wrote Python scripts to collect user financial data. Won Most Original hack prize.

N95 Mask Decontamination Technician
Battelle - Atlanta, GA
June 2020 to August 2020

• Worked 84 hours per week in a National Guard facility during the COVID-19 pandemic to decontaminate masks from hospitals, fire stations, dentists, etc. using H_2O_2 gassing.
• Promoted to Safety Officer after 6 weeks - performed checks and gave a safety briefing each day.

Research Assistant
Ohio State CCAPP - Columbus, OH
February 2019 to July 2019

• Analyzed the Dark Energy Survey's Year 1 data - Computed galaxy clustering using angular position and redshift, with the $w(\theta)$ correlation function. Reduced uncertainty estimations for galaxies' bias b.
• Employed and troubleshot likelihood software and MCMC samplers to calculate and minimize errors.
• Presented findings to Physics faculty and head of the Astroparticle Physics department (CCAPP).

Outreach Coordinator
NASA - Micro-g NExT - Houston, TX
September 2018 to May 2019

• Selected for NASA's challenge of designing a camera mount for use on future Space Station EVAs.
• Wrote operations plan for astronaut testers doing neutral-buoyancy dives with the mount.
• Organized outreach events in the Columbus community: aerospace-based lessons, panels, and exhibitions for refugee children at The Bridge community center.
• Ran team's Instagram and Facebook pages. Reached out to associates to increase media visibility.
• Consulted with NASA engineers at Houston's Johnson Space Center to test the camera mount.

Education

B.S. in Statistics, Physics, Astronomy
The Ohio State University - Columbus, OH
August 2018 to Present

Skills

• R
• MATLAB
• Java
• GitHub
• C++
• CAD
• Swift
• Microsoft Excel
• Data visualization
• SAS
• SQL
• Data collection
• Data science
• Qualitative analysis
• Quantitative analysis
• Microsoft SQL Server
• Analytics

- Dissection
- Analysis skills
- Regression analysis
- Regulatory reporting
- UNIX
- AWS
- Azure
- Linux
- Customer service
- Deep learning
- Android
- Git
- NumPy
- Python
- Clustering
- Math
- Mentoring
- Angular
- Research
- Redshift
- Security
- Military
- Statistics
- Organizational skills
- Operating systems
- Quantitative research
- Tutoring
- Calculus
- Cashiering
- Microsoft Office
- Driving
- Leadership
- Communication skills