Benjamin R. Gochanour

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OBJECTIVE

To obtain a data analytics internship for Fall 2019, Spring 2020, and/or Summer 2020.

EDUCATION

UNIVERSITY OF OKLAHOMA Norman, OK
Bachelor of Science, Mathematics, and Master of Science, Biostatistics, May 2021
Minors in *Spanish, Medical Humanities*
GPA: 4.0

INTERESTS

Interested in how novel research methods and statistical analysis can provide solutions to complex problems within medicine, public health, business, sports, and other disciplines.

SKILLS

STATISTICAL ANALYSIS AND MACHINE LEARNING

- Skilled with R, Python, SAS, SQL, JMP, and MATLAB
- Experienced with supervised and unsupervised machine learning methods using Python's scikit-learn library
- Experienced with deep learning/recurrent neural network models using Python's keras library

RESEARCH

- Design research studies based on a critical evaluation of existing work
- Analyze data and construct compelling research posters
- Present research to fellow researchers and students across various disciplines
- Perform laboratory techniques for DNA analysis, including DNA purification, PCR techniques, and gel electrophoresis
- Perform foundational microbiology laboratory techniques, including culturing, aseptic techniques, and bacterial enumeration/identification

COMMUNICATION

- Comprehend detailed, technical scientific information and data
- Communicate scientific information and data clearly and accurately in oral and written work
- Effectively work both independently and as a team member
- Keep meticulous notes before, during, and after procedures

RELEVANT EXPERIENCE

Johns Hopkins University Applied Physics Laboratory, Health Data Science and Analytics Group, *College Summer Intern*, June 2019-August 2019

- Performed data linkage, data cleaning, correlation analysis, and built machine learning models to pinpoint the causes of physiological episodes on naval training flights

University of Oklahoma, Corix Plains Institute, *Research Assistant*, Fall 2018-Present

- Use SGAT, Isorix, isOrigin, and other R packages to improve migration visualization maps
- Use Stacks computational pipeline for genomic analysis

University of Oklahoma, Public Health Discussions, Research Consultant, Fall 2018-Present

- Develop a mental health training module for undergraduates at OU based off student surveys, interviews with faculty/clinical professionals, and independent research

University of Oklahoma, First Year Research Experience, *Participant with Kelly Lab*, Fall 2017-Spring 2018

- Designed and conducted a study on the effect of handling on the rate of return for Dark-eyed juncos at a study site on OU's campus
- Conducted field work (banding and re-sighting birds), lab work (purifying and analyzing DNA from blood), and data analysis work (using R)
- Developed and presented a research poster summarizing findings

RELEVANT COURSEWORK

- MATH 4753: Applied Statistical Methods
- MATH 4773: Applied Regression Analysis
- BSE 5163: Biostatistical Methods I

ACADEMIC HONORS

- Presidential Honor Roll
- National Merit Scholar
- Richard V. Andree Memorial Mathematics Scholarship

REFERENCES

Available upon request