**Benjamin R. Gochanour**

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

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| **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 |

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| **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. |

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| **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 |

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| **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 |

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| **RELEVANT COURSEWORK** |  | * MATH 4753: Applied Statistical Methods * MATH 4773: Applied Regression Analysis * BSE 5163: Biostatistical Methods I­ |

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| **ACADEMIC HONORS** |  | * Presidential Honor Roll * National Merit Scholar * Richard V. Andree Memorial Mathematics Scholarship­ |

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| **REFERENCES** |  | Available upon request |

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