

ALISHA RAJBHANDARI

Problem Solver | Rapid Learner | Detail-oriented | Team Player

alisha.rjb@gmail.com • (513) 777 7777 • [linkedin.com/in/rjb-alisha](https://www.linkedin.com/in/rjb-alisha)

Experienced data scientist with a demonstrated history of working in the research industry. Highly skilled in machine learning, deep learning, and statistical models including, but not limited to, regression, general linear models, mixed-effect models, time-series analysis, clustering, dimensionality reduction, etc.

EDUCATION

Master of Science in Statistics CGPA: 4.0/4.0	Miami University	2019
Bachelor of Business Administration (BBA) CGPA: 3.94/4.0	Pokhara University	2014

KEY SKILLS

- **SAS, Python, R, R-Shiny, R-Markdown, SQL, and VBA**
- Advanced knowledge in **MS Office suite** (including Pivot Tables, LOOKUP, and Macros)
- Building a pipeline from data collection, extraction and verification with building various models and presenting meaningful results on Dashboard
- Actuarial Exams Passed: **P, FM, MFE, C, VEE**
- Experience with version control tools like **GitHub, Gitlab, SVN**
- Experience working on **High Performance Computing** along with cloud-computing platform like **Amazon Web Services (AWS)**

RELEVANT EXPERIENCE

<i>Data Scientist II</i>	<i>Battelle Memorial Institute, Columbus, OH</i>	<i>Jan 2019 – Dec 2022</i>
<ul style="list-style-type: none">➤ Worked with the analytics team in supporting government and private industry clients in the healthcare, defense, and environmental sectors.➤ Implemented and tested methodologies to solve various problems using machine learning/deep learning models.➤ Performed statistical analysis and modeling, generated graphical displays, managed data, and prepared supporting documentations for a variety of tasks.➤ Managed micro projects by developing scope and project plans, providing team leadership, monitoring schedules, costs and quality of project as well as carrying out the data analysis.➤ Automated the data cleaning process along with EDA to produce ~2800 pages of statistical results and plots with a single click.➤ Built a pipeline in predicting labor hours required for different tasks in a project and deployed using Shiny Dashboard.➤ Developed data science standards for the biostatistics team and led the efforts for transitioning to GitHub.➤ Automated multiple tasks to reduce time in multiple projects by efficient coding strategies.➤ Contributed to delivering the dataset, codebook, data dictionary and documentations.➤ Communicated efficiently with internal and external clients in describing technical results in a clear and succinct manner in the form of presentations and technical reports.➤ Contributed to several peer-reviewed journal publications and conference presentations.➤ Supported business development efforts by contributing to technical sections of the proposals.➤ Worked in a fast-paced environment with multiple projects and met deadlines.➤ Worked independently as well as in teams, including leading and mentoring staffs.		

Data & Modeling Sciences Intern Procter & Gamble, Cincinnati, OH Aug 2018 – Dec 2018

- Analyzed various structured and unstructured data using advanced statistical modeling techniques.
- Evaluated consumer product usage results and developed statistical webtools for effective data visualization using R Shiny, R Markdown and SAS.

Actuarial Intern Ameritas Life Insurance Corp., Cincinnati, OH May 2018 – Aug 2018

- Reviewed reinsurance treaties between Ameritas and other reinsurance companies to confirm that the reinsurance is being administered properly.
- Computed premiums using paper-based treaty agreement and compared to the premiums from the reinsurance administration system.
- Communicated findings from the treaty review process to supervisors.
- Automated the treaty review process for survivorship policies using Excel VBA.

Graduate Assistant Miami University, Ohio Aug 2017 – Dec 2018

- Led lab sessions for introductory statistics courses.
- Held office hours and helped students understand more about the statistics.
- Graded assignments, quizzes, exams, labs, and proctored exams.

Grader University of Texas at Tyler, Texas Sep 2015 – May 2016

- Graded the assignments and quizzes for Calculus and Statistics courses for the Mathematics department.

PUBLICATIONS

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- **Rajbhandari, A., Matteson, K., Katz, E., LeBuhn, G., & Johnson, E. (2023). Bee visitation to flowers throughout New York City.** *Landscape and Urban Planning*, 233, 104689. <https://doi.org/10.1016/j.landurbplan.2023.104689>
 - **Kim, H., Rajbhandari, A., Krile, R., Lang, I. M., Antonakos, C. L., & Colabianchi, N. (2023). Body Mass Index Trajectories among the Healthy Communities Study Children: Racial/Ethnic and Socioeconomic Disparities in Childhood Obesity.** *Journal of racial and ethnic health disparities*, 1–13. Advance online publication. <https://doi.org/10.1007/s40615-023-01511-x>
 - **Schuetter J, Johnson C, Rajbhandari A, Bollas A, Fair A, et al. (2022) The case for targeted community level pathogen genomic biosurveillance and visualization in the Wastewater Pathogen Tracking Dashboard.** *Arch Epid Pub Health* 4: DOI: 10.15761/AEPH.1000126. <https://doi.org/10.15761/AEPH.1000126>
 - **Niemuth NA, Fallacara D, Triplett CA, Tamrakar SM, Rajbhandari A, Florence C, et al. (2021) Natural history of disease in cynomolgus monkeys exposed to Ebola virus Kikwit strain demonstrates the reliability of this non-human primate model for Ebola virus disease.** *PLoS ONE* 16(7): e0252874. <https://doi.org/10.1371/journal.pone.0252874>

PRESENTATIONS

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- **Stewart, M.T., Rajbhandari, A., Lang, I-M., Miller, S., Colabianchi, N. (2021). Neighborhood safety, school programming, and active transportation to school; findings from the Healthy Communities Study (Mini-Oral).** 8th International Society for Physical Activity and Health (ISPAH) Congress, held Virtual due to COVID-19. October, 2021.
 - **Stewart, M.T., Verma, M., Rajbhandari, A., Antonakos, C., Colabianchi, N. (2021). Park Availability and Physical Activity Among Children and Adolescents: Findings from the Healthy Communities Study.** International Conference on Ambulatory Monitoring of Physical Activity and Movement. Virtual Conference. June, 2021