

# Morgan Ford

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Education	<b>Rensselaer Polytechnic Institute</b> Master of Science, Applied Mathematics (Concentration: Data Science) May 2022 Bachelor of Science, Applied Physics (Concentration: Systems Science) May 2021  Related coursework: Intro to Machine Learning Applications, Data Analytics Research, Data Analytics, Big Data Policy, Intro to Data Math, Statistical Analysis
Skills & Abilities	<b>Programming Languages</b> : Fluent in R (Shiny, bslib, ggplot, highcharter, DPLYR, tidyverse) , Python (NumPy, Matplotlib, SciPy, Scikit-Learn, Pandas, Keras); Proficient in SQL, git, MATLAB, Arena, LaTeX <b>Platforms</b> : R Studio, Jupyter Notebook, Wing, Microsoft Office suite (Word, PowerPoint, Excel w/ Solver)
Project Experience	<b>Eat4Genes App</b> ( <a href="https://olyerickson.shinyapps.io/Eat4Genes/">https://olyerickson.shinyapps.io/Eat4Genes/</a> ) August 2021- Current <ul style="list-style-type: none"><li>Develop back and front end of R Shiny app, especially the prototype.</li><li>Gather real world data from many sources and cleaning, manipulating, and compiling them into one database.</li><li>Find meaningful ways to present data to laypeople.</li><li>Assist in managing project team by distributing tasks using Github Issues.</li><li>Collaborate with a team of data analytics students, professors, and clients.</li></ul> <b>US Food Desert's Demographics, Food Access, and Disease Prevalence</b> January – May 2022 <ul style="list-style-type: none"><li>Examined the relationship between different variables across real world data from multiple sources.</li><li>Created SVM, Linear Regression, KNN, and Random Forest models to predict trends in communities.</li></ul> <b>Multilayer Perceptron Neural Network for Classifying Coronavirus NLP Data</b> April 2022
Work Experience	<b>Waterfront Director</b> - Greater Philadelphia YMCA June – August 2021 <ul style="list-style-type: none"><li>Developed schedule for 3 summer camp programs on 2 waterfronts.</li><li>Implemented quality waterfront programming for over 200 children ages 3-17 a week.</li><li>Implemented new swim lesson and sailing curriculum.</li><li>Coordinated and managed team of 15 lifeguards.</li><li>Ensured that 2 waterfronts met all safety regulations and guidelines.</li><li>Pre-season and in-service trained lifeguard and summer camp staff.</li></ul> <b>Waterfront Instructor</b> - Girl Scouts of Eastern Penn. June - August 2016 –2019  <b>Lifeguard/Swim Instructor</b> - Wyckoff Family/ Capital District YMCA August 2016 – March 2020
Volunteer Experience and Leadership	<b>President</b> - Alpha Psi Omega September 2021 – May 2022 <b>Director of Ritual</b> – Alpha Gamma Delta Zeta Eta January - December 2021 <b>Publicity Director</b> – RPI Players January - May 2021 <b>Physics 1 Honors</b> – Mentor I-PERSIST Mentoring August - December 2019, 2020, 2021

