

Kevin Michael Zolea

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SKILLS:

- Proficient in R(Tidyverse, Shiny, Rmarkdown), Python(Pandas, Numpy, Matplotlib), Tableau, & Excel
- Working knowledge in SQL, ArcGIS, Matlab, HTML, & JavaScript

PROFESSIONAL EXPERIENCE:

New Jersey Department of Environmental Protection, Trenton, NJ

March 2018 - Present

Environmental Specialist 1 (March 2020 - Present)

Environmental Specialist Trainee (March 2018 - March 2020)

- Manipulate 100,000+ data points from various databases into R, using tidyverse, to generate geospatial maps and data visualizations
- Design and maintain 6 interactive dashboards using the shiny package that increases data pipeline efficiency by 20% for planning team
- Develop linear regression models in R's ggplot2 to identify correlations between pollutants
- Automate data review and data assessment through use of R/Python scripts, reduce data processing time by 30%
- Construct annual research report for 5 air monitoring stations in collaboration with 3 different departments

National Center for Environmental Prediction, College Park, MD

May 2017- August 2017

Summer Research Intern

- Reported statistical and analytical insights to executives for improvement of weather predictions toward the Global Forecast System
- Provided critical feedback to model developers and management regarding model changes, verification, and forecast issues
- Created visual maps using Python to validate real time observations to the Global Forecast System
- Co-authored poster presentation at research colloquium and technical paper, interpreting research conclusions

Colorado State University, Fort Collins, CO

May 2016 – August 2016

Research Experience for Undergraduates Summer Intern

- Implemented and managed 3 month research study utilizing statistical analysis techniques in MATLAB
- Collaborated effectively with 3-5 National Science Foundation research scientists to improve hurricane predictions
- Delivered 2 PowerPoint and 2 poster presentations at the American Meteorological Society Conference in Seattle, Washington

EDUCATION:

Kean University, Union, NJ

School of Environmental & Sustainability Sciences

- Bachelor of Science, Earth Science/Geoscience
- Minor in Mathematics
- Member, Louis Stokes Alliance for Minority Participation & American Meteorological Society