

Kevin Michael Zolea
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EDUCATION:

Kean University, Union, NJ

Graduation Date: December 2017

School of Environmental & Sustainability Sciences

- Bachelor of Science, Earth Science/Geoscience
- Minor in Mathematics
- Dean's list, 2016-2017
- Member, Louis Stokes Alliance for Minority Participation & American Meteorological Society

RELEVANT COURSEWORK:

Geo-Hydro Systems; GIS in Geoscience; Air Pollution Management; Intro to Meteorology; Remote Sensing; Differential Equations; Statistics; Data Analysis in Environmental & Sustainability Sciences; Intro to Geology; Intro to Oceanography; Calculus I& II; Physics I& II; Computer Science

PROFESSIONAL EXPERIENCE:

New Jersey Department of Environmental Protection, Trenton, NJ

March 2018 - Present

Environmental Specialist Trainee

- Research key water quality issues and execute implementation plans toward water quality management
- Automate water monitoring data review and data assessment through use of R scripts
- Developed linear regression model in R's ggplot2 to identify correlations between pollutants
- Wrangle raw data from various sources into R, using tidyverse, to perform geospatial maps and data visualizations
- Report actionable, statistical, and analytical insights to Total Maximum Daily Load (TMDL) team
- Create dynamic interactive dashboards using the shiny package for organizational reproducibility
- Design maps in ArcGIS for spatial analysis of impaired water bodies throughout NJ

National Center for Environmental Prediction, College Park, MD

May 2017- August 2017

Summer Research Intern

- Collaborated closely with NOAA research scientists and provided insight toward research operations
- Analyzed the diurnal cycle of precipitation in the Global Forecast System to determine areas for improvement
- Created visual maps using METViewer to compare observations to the Global Forecast System
- Prepared PowerPoint presentation at research colloquium and technical paper, interpreting research conclusions

Colorado State University, Fort Collins, CO

May 2016 – August 2016

Summer Undergraduate Research Intern

- Evaluated easterly wave formation and origins in the East Pacific to improve hurricane predictions
- Integrated a variety of datasets and generated visual maps for interpretation using MATLAB
- Coordinated research findings closely with world-class atmospheric scientists
- Delivered research conclusions with a PowerPoint and poster presentation

RELEVANT PRESENTATIONS:

97TH Annual American Meteorological Society Conference, Seattle, WA

Poster Presenter

- Lance Bosart Symposium- Case Study Analysis of Easterly Wave Formation in the Tropical East Pacific

98TH Annual American Meteorological Society Conference, Austin, TX

Poster Presenter

- Analyzing the Diurnal Cycle of Precipitation in the NCEP Global Forecast System

SKILLS:

- Proficient in Microsoft Office (Excel, PowerPoint, Word and Outlook) & R
- Working knowledge in MATLAB, ArcGIS, Python, SQL, METviewer & JavaScript