Alice (Yuxin) Shen

Aliceshen1029@gmail.com
19 Alcira, Irvine, CA 92612
949-491-2757

Professional summary

Detail oriented data analyst with over 2 years' experience in climate modeling and GIS mapping, specialty in **Hydrologic cycle** and **Terrestrial ecosystems.** Efficient data profiling and analytical processing with programming language such as **Python** and **R**. As well as rendering finale result in **Tableau** data visualization and **ArcGIS** for sharing and presentation purpose.

Skills

- Programming: R, Python 3.5/3.6, Eclipse
- Analytical: MATLAB, R Studio, JMP Statistical Software
- Data Visualization: Tableau, ArcGIS, ENVI Remote Sensing
- Language: English, Mandarin, Japanese

Professional Experience

University of California Irvine
Irvine, CA
Research/Data Analyst   Mar 2017 – Jun 2018

- Communicated with research group about project requirement and potential outcome during JRD meeting.
- Examined Atmospheric Model Intercomparison Projection precipitation models using MATLAB
- Performed data profiling task with Macros in Excel to filtering out data with excessive deviation.
- Processed 4-Dimensional models in NetCDF files and extract data for post processing.
- Analyzed the mechanisms that causes prediction differences between different models
- Migrated legacy python script from version 3.5 to 3.6 with updated feature and function.
- Optimized Python application by avoiding unnecessary sorting operation in numbers of Python code.
- Configured Tableau data source by retrieve data from different data source using join and union.
- Output analysis result by creating various type of visualization in Tableau such as Bar chart, and Line chart.
- Performed complicated mathematical calculation in Tableau by implementing running_sum, rank, and count.
- Published data source, sheets, and dashboard into Tableau Online for research result delivery.
- Refined Tableau Dashboard Performance by reduce number of filter in data source.
- Wrote quarterly research summary papers to communicate with team members.

University of California Irvine
Irvine, CA
President of Earth System Science Club   Sep 2016 – Jun 2018

- Directed and supervised overall operations and student staff activities of the club
- Increased club general meeting attendance by 50% in 2017-2018 academic year.
- Communicated with UCI Earth System Science Department to calculate and finalize annual budget cap.
- Independently initiated club mentorship program in 2017, resulting in the matching of 22 mentor-mentee pairs and increased club membership by 20%.
- Improved membership registration process by creating an online system which significantly increased membership management process efficiency.
- Invited and networked with leading environmental consulting firms for department internal career fair.
- Conducted numbers of session for Tutoring Program in both academic and career development.
- Prepared spreadsheet and presentation slides in Word and PowerPoint document for meetings and professional workshops.
- Managed multiple concurrent tasks under pressure within tight timeline.

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Project Experience

Field Research: Coastal Dune Invasion and Restoration at Point Reyes   **Summer 2017**
https://ucnrs.org/fsp/cec_research/Coastal-dune-invasion-and-restoration-at-Point-Reyes.pdf
- Wrote and proofread final research paper with team members (Names ranked by last name initials).
- Individually designed and presented research proposal during research thesis conference.
- Designed sampling processes and managed field sampling equipments.
- Analyzed statistical data with JMP Statistical Software by implementing ANOVA and Tukey tests.
- Worked collaboratively with team members and faculties who came across different UC campuses.

Tableau: Superstore Sales Analysis
https://public.tableau.com/profile/alice4963#!/
- Created user interactive dashboard with multiple data visualization including custom visual donut chart.
- Utilized fixed LOD expression to calculated aggregation based on certain dimension for cohort analysis and customer order frequency analysis.
- Implemented context filter and action filter to limit number of data point presented on worksheet for better user experience and user interactivity.
- Developed Analytical report such as Heat map, and Tree map for sales analysis on product category.
- Created calculated field to implementing rank(), count() and countd() functions.

GIS: Air Quality and Lung Cancer Incidence
http://yuxins2.wixsite.com/home/gis-map-gallery-page
- Created air quality and lung cancer incidence map of different AQI levels with ArcGIS 10.3.1.
- Combined multiple spreadsheet from different data sources with VLOOKUP in Excel.
- Researched data resources and verify accuracy and authenticity
- Performed geoprocessing and saved by creating new geodatabase
- Managed multiple map layers and designed page layout.

Python: Othello game
https://github.com/Aliceshen1029/othello
- Translated and coded othello game logic from game description and user request.
- Designed simple UI layout with basic instructions and appropriate colors.
- Prevented system crash by prompting detailed error messages for user inputs.

EDUCATION

B.S. Earth System Science (Minors: Informatics; Global Sustainability) GPA: 3.98
University of California Irvine, Irvine, CA
Specialization: Hydrology and Terrestrial Ecosystems; Atmospheric Science
Dean's Honors List - 10 quarters. Phi Beta Kappa. *magna cum laude*