Alan Jones

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Experience

U.S. Geological Survey - New England Water Science Center
Junior Technical Editor
October 2017 - Present

- Instrumental in implementing and training staff in working with new publishing software that automates numerous copy-editing tasks and increases production efficiency.
- Created database and wrote SQL queries to enable agency-wide distribution of the USGS Publishing Network's largest product distribution to date (more than 30,000 books and pamphlets printed and shipped in product's first run).
- Created new automated workflows by scripting macros in VBA for Excel and Word that helped improve my team's output by nearly 200% during the last fiscal year (56 reports published in FY 2017, 110 published in FY 2018).

UCSB Department of Earth Science
Graduate Researcher/Teaching Assistant
July 2015 - June 2017

- Created MATLAB library for data analysis and data visualization of large paleoceanographic datasets and developed new age estimates for 11 sediment cores using Bayesian statistical algorithms written in R and C++.
- Acted as lead TA in upper and lower-division science courses, which involved managing course teaching staff and designing classroom exercises for students with a focus on data analysis and visualization.

Roof Maintenance Systems
Maintenance Crew Foreman
2009 - 2012

- Supervised and coordinated 2-5-person crews during maintenance and emergency repairs.
- Developed a comprehensive OSHA-compliant safety program.

Projects

M.S. Thesis – *A comparison of four age model techniques for Iberian Margin sediment cores from 0 to 140,000 years ago*
Developed computational approach to quantitatively assess uncertainty in climate-proxy age models using data analysis programming in MATLAB and R (paper submitted for peer review). Received G.K. Gilbert award for outstanding presentation of original research.

Honors Thesis – *Geochemical Fingerprinting of Clays in the Belize River Valley*
Developed new isotopic fingerprinting technique for clay soils on the Yucatan peninsula using radiogenic isotope compositions (Sm-ND) measured using ICP-MS. Used GIS for mapping and geospatial analysis during soil-sampling and field surveys in Belize and in subsequent technical reports.

Education

University of New Hampshire
Bachelor of Science Geology, June 2015
3.77 GPA, graduated Summa Cum Laude with Honors in Major

University of California Santa Barbara
Master of Science in Earth Science, June 2017
3.87 GPA

Skills

Dataset management and analysis (MySQL, MS Access)
Scientific programming (MATLAB, Python, and R)
Geographic Information Systems and Geospatial analysis
Proficient with both ArcMap and ArcGIS Pro
Technical writing/editing
Field methods

Selected Coursework

Mathematical modeling in Earth Science - graduate
Statistics for Earth Science - undergraduate
Calculus I, II, and III - undergraduate
Differential Equations with linear algebra - undergraduate
Climate modelling - graduate
Physical Oceanography - graduate