Matthew B. Little

209–573–1734
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www.linkedin.com/in/matthewblittle

Summary

- 5 years of experience in atmosphere and ocean sciences, mathematics, and scientific programming
- B.S. in meteorology (GPA: 3.764), minor in mathematics; computer programming certification
- Atmosphere and ocean computer modelling experience
- Published scientific documents and posters
- Presented scientific information to technical, professional, administrative, and public audiences
- Self-starter capable of working and learning new skills independently
- Eligible for Schedule A hiring authority (persons with disabilities)
- U.S. citizen registered for Selective Service

Programming Languages and Computing Experience

- Scientific Programming Languages: MATLAB, IDL, Fortran, Python, UNIX Bash scripting
- Web Programming Languages: HTML, CSS, JavaScript, PHP, SQL (Oracle, MySQL)
- Operating Systems: UNIX Command Line, Linux (CentOS, Ubuntu), Windows XP/7/10, Mac OS X
- Software Packages: Microsoft Office, ArcGIS, GrADS, Adobe Photoshop, Aptana Studio

Professional Experience

Earth Science Programs Volunteer   09/01/13 – Present
Texas A&M University: College Station, TX   10 hours/week
- Review and edit material for the Science Bowl middle and high school competitions
- Serve as judge for the Texas Junior Academy of Science and Texas Junior Science Symposium
- Write and proctor exams for the Texas State Science Olympiad Meteorology section
- Present exam topics at the Coaches Clinic for the Science Olympiad Meteorology section

Graduate Assistant Researcher (GAR)   07/03/12 – 09/01/13
Texas A&M University: College Station, TX   20 hours/week
- Used NERSC and NCAR supercomputers to generate ocean model output
- Developed UNIX Bash scripts to automate routine procedures and modified Fortran model code
- Submitted jobs to supercomputer queues, maintained and debugged model, and reviewed output
- Transferred data across networks and organized data in a UNIX environment
- Conducted literature reviews

Intern Researcher in the DEVELOP National Program at NASA ARC   6/06/11 – 08/12/11
Science Systems and Applications, Inc. (SSAI): Moffett Field, CA   40 hours/week
- Analyzed model output using IDL to estimate effects of climate change in California
- Developed IDL code for data analysis and data visualization
- Presented results at the AGU and AMS annual meetings
- Published results in the proceedings of the ASPRS in 2012
- Conducted literature reviews

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Student Researcher: [1] Wind Climatology and [2] CO2 Emission Simulations   09/01/10 – 12/01/11
San José State University: San José, CA   20 hours/week
- [1] Analyzed wind model output to determine ideal wind turbine placement in California Bay Area
- [1] Developed IDL and UNIX Bash script code to automate data ingestion, modified Fortran model code to facilitate data input and processing, and developed wind vector data visualization code
- [2] Developed a model relating university commuter student CO_2 emissions to online courses
- [2] Developed MATLAB and IDL model code, and code for output analysis and data visualization
- [2] Coauthored a paper in the International Journal of Sustainability in Higher Education in 2014
- [1 & 2] Conducted literature reviews and created reports and presentations

Data Input for Marine Vessel Routing   06/01/10 – 09/24/10
Applied Weather Technology: Sunnyvale, CA   32 hours/week
- Input data for weather conditions and marine vessel locations
- Alerted superiors when vessels encountered hazardous conditions

Intern Researcher: Statistical Analysis   06/01/09 – 08/15/09
California State University Long Beach: Long Beach, CA   40 hours/week
- Analyzed dataset of consumer purchasing pattern information
- Analyzed data using the SPSS statistical software package
- Presented results for professional and research audiences
- Conducted literature reviews

Mathematics Tutor - Algebra and Calculus 1   01/16/08 – 06/04/09
Cypress Community College: Cypress, CA   15 hours/week
- Organized tutoring sessions which raised students' class rankings by an average of 10%
- Lead semiweekly group and individual tutoring sessions and made lesson plans
- Presented techniques at regional conferences to teaching professionals

Education

San José State University (San José, CA): Degree Completed
    BS: Meteorology,   Minor: Mathematics   GPA: 3.764/4.000

Austin Community College (Austin, TX): Certificate Completed August 2016
    Certificate: Computer Programming - Web   GPA: 4.000/4.000

Selected Awards, Leadership, and Affiliations

Award Name	Dates Awarded
NASA Group Achievement Award	2012
2nd Place (out of 17): AMS Student Poster Competition	2012
AMS National Scholarship (Dr. Yoram Kaufman Award)	2011
Phi Kappa Phi Honor Society, Permanent Member	2010 – Present
Golden Key Honour Society, Permanent Member	2009 – Present
Alpha Gamma Sigma Honor Society, Permanent Member	2009 – Present
American Meteorological Society, Member	2011 – Present
American Geophysical Union, Member	2011 – Present