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Matthew B. Little

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Education

San José State University (San José, CA):

B.S. Meteorology

Minor: Mathematics

Cumulative GPA: 3.764

Major GPA: 3.946

Graduated 26 May 2012, magna cum laude

Texas A&M University (College Station, TX):

Physical Oceanography

Graduate GPA: 3.250

25 units graduate education

Selected Professional Experience

3 years cumulative experience in atmosphere and ocean science, mathematics, and programming

Texas A&M University: College Station, TX

Graduate Assistant Researcher (GAR) at Texas A&M University

07/03/12 – 09/01/13, 20 hr/wk, Dr. Benjamin Giese

- NERSC and Yellowstone supercomputers were used to create a database of model output from the Simple Ocean Data Assimilation model
- Responsibilities: UNIX shell scripting, large-scale data management, model maintenance and debugging, and submitting jobs for computing time in a timely manner

NASA Ames Develop: Moffett Field, CA

Undergraduate Research Intern in the Develop National Program at NASA Ames

06/01/11 – 08/01/11, 40 hr/wk, Dr. Jay Skiles

- Completed an analysis of Terrestrial Observation and Prediction System model output using code developed in IDL to estimate environmental effects of climate change in California
- The results were presented at the AGU and AMS annual meetings and published in the proceedings of the American Society for Photogrammetry and Remote Sensing in 2012
- Responsibilities: developed IDL code for data analysis and presentation, created reports and presentations, timely completion of products according to strict deadlines

San José State University: San José, CA

Undergraduate Research Assistant: [1] Wind Climatology Analysis and [2] CO₂ Emission Simulations

09/01/10 – 12/01/11, 20 hr/wk, Dr. Eugene Cordero

- [1] Completed analysis of Winds on Critical Streamline Surfaces model output to determine ideal locations for wind turbine placement in the California Bay Area
- [1] Responsibilities: developing IDL, FORTRAN, and UNIX scripting code to facilitate data input, developing code for spatial display of data, creating reports and presentations
- [2] Developed a model relating university student commuter CO₂ output to the availability of online courses
- [2] Presented results at a university poster session and to the funding department and coauthored a paper in the International Journal of Sustainability in Higher Education
- [2] Responsibilities: independently developed MATLAB and IDL model code, created reports and presentations

Technical Experience

- Experience using meteorological and oceanographic data, databases, and models
- Published technical documents and presented study results to professional audiences
- Experience using:

<u>Programming Languages</u>	<u>Operating Systems</u>	<u>Software packages</u>
MATLAB	UNIX	MS Office
IDL	Linux	ArcGIS
Fortran	MS Windows	GrADS
Python	MS DOS	IDV
Ferret	Mac OS	Ocean Data View
C/C++		SPSS

Selected Awards

<u>Award Name</u>	<u>Dates Awarded</u>
NASA Group Achievement Award	2012
2 nd Place: AMS Student Poster Competition	2012
College of Geosciences Sharp Scholarship	2012
AMS Scholarship (Dr. Yoram Kaufman Scholarship)	2011
Herbert and Nell Scholarship	2011 – 2012
Thermo Fisher Scientific Scholarship	2009 – 2012

Leadership and Affiliations

<u>Position, Organization</u>	<u>Years Active</u>
Selected student, Scholars in Science Program	2010 – 2012
Permanent member, Phi Kappa Phi Honor Society	2010 – 2012
Permanent member, Golden Key Honour Society	2009 – 2012
Permanent member, Alpha Gamma Sigma Honor Society	2009 – 2012
Elected Vice President, Engineering and Physics Club	2008 – 2009
Student Member, American Meteorological Society	2011 – Present
Student Member, American Geophysical Union	2011 – Present

MetEd Courses and Modules Completed (Supplemental Meteorology Training)

<u>Module or Course Title</u>	<u>Training</u>
Advanced Fire Weather Forecasters Course	Course
Introductory Topics in Oceanography	Course
Mesoscale Meteorology: A Primer for Forecasters	Course
Summer Severe Weather	Course
Skew-T Mastery	Module