

# RANDY S. MILLER JR.

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## SUMMARY

Creative problem solver with experience relating to scientific programming. Adept at working in a high-performance computing environment. Work collaboratively in a multidisciplinary environment to accomplish mission objectives.

## EDUCATION

Penn State University, University Park, PA  
Bachelor of Science, Meteorology, May 2013  
Focus in Climatology  
Minor in Geography  
G.P.A. 3.96

## EXPERIENCE

<b>Scientific Programmer</b>	Penn State, Dr. Robert Nicholas University Park, PA	May 2013-Present
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Develop, document, and apply models and tools for dataset processing, decision support, and Earth system, economic, sensitivity, and trade-off analysis. Implement and support web-enabled cyber-infrastructure, high performance computing capability, and remote collaboration tools. Generate visualizations of scientific results. Assist in the creation of education and outreach materials; and provide technical support for SCRiM meetings, workshops, and other activities.

<b>Research Assistant</b>	Penn State, Dr. Chris Forest University Park, PA	May 2012- May 2013
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Responsible for writing and editing scientific models for data analysis. Create graphic representations of coverage maps, temperature trends, and other analyses.

<b>Fuels Specialist</b>	United States Air Force	Sep 2000- Jan 2005
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Collaborate with team of fuel specialists to ensure all safety regulations are up-to-date, and manage the refueling process of the aircraft.

## SKILLS AND TRAINING

**Languages:** Python, IDL, Fortran, Bash, Perl, C++, R, and Matlab.

**Operating Systems:** Mac OSX and Linux.

**Training:** BigFix, and software packaging and deployment.

**Misc.:** Git, NetCDF, GRIB, CDO.

## HONORS AND AWARDS

Charles and Anna Hosler Scholarship in Meteorology

Dean's list, every semester

Graduated with the highest distinction

The Physical Meteorology Award

United States Air Force Veteran