MICHAEL M. SELTZER

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EDUCATION

Tufts University   **Medford, Massachusetts**
Bachelor of Science in Computer Science Engineering   Expected 2017
- **GPA:** 3.4 - Dean's List

WORK & RESEARCH EXPERIENCE

Department of Psychology (Tufts University)   **Medford, MA**
Developer   August 2014-Present
- Developed a Java application to be used in a psychological study using a MySQL database to store persistent data

Climate Modeling (University of Colorado)   **Boulder, Co**
GEOS-CHEM Support Staff (Development)   May 2013-August 2014
- Developed over 30 scripts (MATLAB, IDL, BASH) to perform various preprocessing calculations and post processing model checking
- Automated the process of model runs, compiling a series of procedures into a simple interface that allows for user input from the selection of a model task (such as a country or crop), running the model, and finally automated checking of model procedures
- Performed performance testing of model (using various parallel processing strategies)

National Oceanic and Atmospheric Administration   **Boulder, Co**
Data Analyst   May 2011-August 2012
- Performed an analytical comparison of two air pollution monitors as part of a determination of future equipment to purchase for NOAA's 15 global sites
- Managed a team to analyze 10 years of data from NOAA's global sites for publication and release to researchers

AWARDS AND CONFERENCES

Rocky Mountain Annual Computing Conference (RMACC)   **Boulder, Co** August 2014
- Invited speaker for High Performance Computing Symposium
- Presented results of climate model run simulations (and performance)

Colorado Environmental Health Association (CEHA)   **Boulder, Co** Sep 2012
- Invited speaker at environmental health conference
- Created a low cost air pollution monitor proxy (primitive technology for use in low budget environments)

Global Monitoring Annual Conference (GMAC)   **Boulder, Co** May 2012
- Invited student presenter for NOAA's Global Monitoring Annual Conference
- Presented research on low cost air pollution monitor

SKILLS & ACTIVITIES

Languages: Conversational Proficiency in Spanish
Technical Skills: Java, C++, IDL, BASH, FORTRAN, MATLAB, HTML, SQL, ArcGIS (ArcMap), MS Office, Visual Basic for Applications for MS Office suite
Activities: Saxophone (play in successful band with an EP), Clarinet, Piano
Interests: Ultimate Frisbee, Tennis, Racquetball, Biking