Emma Reeves

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Education	**Hamline University: Bachelor of Science: Physics, Geology; minor: Mathematics** *Cumulative GPA*: 3.61 *Technical GPA:* 3.5
Work Experience	**Mathematics, Physics, Calculus II Tutor** Hamline University, Center for Academic Services, September 2010-May 2011; February 2013- Present **Undergraduate Intern and Lab Assistant** University of Minnesota, Earth Sciences- Minneapolis, Minnesota, August 2011-April 2012
Research Experience	**Summer Intern- 2013** *Using CReSIS airborne RADAR to constrain ice-volume influx into the Northeast Greenland Ice Stream* Center for Remote Sensing of Ice Sheets (CReSIS) —Elizabeth City, NC Mentor: Peter Burkett *Determination of an empirical model relating canopy cover to NDVI values in the Pasquotank Watershed, NC* Watershed Watch Program—Elizabeth City, NC Mentor: Dr. Stephen Hale **Undergraduate Intern- 2012-2013** *Current correlation from dual emission tips* Hamline University, Physics—St. Paul, MN Mentor: Dr. Kevin Stanley **Summer Intern- 2011** Hamline University, Physics—St. Paul, MN Mentor: Dr. JiaJia Dong
Computer and Lab Skills	*Computer* - *Mathematica* - *Arduino* programming - *Vernier* data collection and basic statistics - C++ - Solidworks (AutoCAD equivalent) - Excel Workbook and Microsoft Word - Adobe Photoshop and Dreamweaver *Lab/Equipment* - Scanning Electron Microscope - X-Ray Diffractometry - Measuring stratigraphic section using a Jacob staff and Brunton compass - Electronic circuitry - Geologic mapping using GPS waypoints - Lake coring and core logging
Honors	*Current Correlation from Dual Field Emission Tips.* National Conference on Undergraduate Research (N.C.U.R.), Lacrosse, WI, 2013. Oral.
Professional Memberships	*American Physical Society (APS)* *Geological Society of America (GSA)* *Institute for Electrical and Electronics Engineers (IEEE)*
Relevant Advanced Coursework	- *Introductory Field Camp*: assisted growth fault reconstruction in Lake Mead Horse Spring Formation - *Electronics*: analog and digital - *Geophysics*: project on subsidence and magma reservoir at Yellowstone National Park - *Sedimentology*: project comparing petrology of Madagascar sandstone beds, Maravoay and Ankazamihaboka - *Engineering Graphics*: basic Solidworks functions, designed set of Christmas ornaments - *Physical Optics*: electromagnetic wave properties at multi-media interfaces
Activities	*Treasurer:* Society of Physics Students, Hamline Chapter- Spring 2013-Present Hamline Mathematics Competition and Club- September 2012-Present Hamline Outdoor Recreation Club (H.O.R.C.)- Spring 2012-Present Macalester College Geology Club- September 2012-Present Hamline Jazz Band- September 2010- Spring 2012