

Steven J. Maglio

- Objective** Completion of a Master's degree in Geology and obtaining a position in a Ph.D. program.
- Experience**
- 2005-Present Northern Illinois University DeKalb, IL
Graduate Teaching Assistant
- Currently teaching 300 level mineralogy lab (s) and 100 level introductory geology lab (s) sessions while pursuing a Master of Science Degree.
 - Conducting experiments determining the lattice parameters of minerals at high-temperature and/or pressure using diamond anvil cells and synchrotron radiation.
- 2003-2005 Northern Illinois Geology Dept. DeKalb, IL
Undergraduate Research
- Conducted voluntary research on the study of 'dirty' Ice VII systems. Varying KCl and NaCl weight percents in the Ice VII structure were studied at different temperature and pressure regimes.
 - Completed Undergraduate Research Apprenticeship Program (URAP) Project with Dr. Mark Frank in spring 2004. Learned the operation and analytical techniques of research using X-Ray Powder Diffraction at the Advanced Photon Source (APS) at Argonne National Laboratory (ANL).
- May-June 2004 NIU-ISU Geologic Field Camp WY/SD
Geologic Field Work
- Completed six week program in field mapping and integrative geologic problem-solving. Learned how to describe rocks, measure stratigraphic sections, record geologic field data, and create geologic cross-sections.
 - Participated in seven different group mapping projects ranging from two to five days in length, covering areas from one to three square miles. In these projects were map areas containing lightly to highly deformed Precambrian igneous and metamorphic rocks as well as Phanerozoic sedimentary rocks deformed during the Laramide and previous orogenies.
- Education**
- 2001-2007 Northern Illinois University DeKalb, IL
- M.S. in Geology, Planned - May 2007. Thesis: The effect of serpentine dehydration on the stability of sulfide phases: Implications for the interior of Ganymede.
 - B.S. in Geology, May 2005. Senior Thesis: Determination of the Equation of State of Ice VII made from a 10 wt% KCl-H₂O solution: Implications for Callisto.
- Skills**
- Excellent skills with computers in many forms. Advanced experience with Excel, PowerPoint. Intermediate experience with Igor Pro, Fit2D, beamline operational software (at APS at ANL). Intermediate knowledge of how to load Diamond Anvil Cell (DAC) samples and experimental procedures.

Awards, Grants

Geological Society of America

- 2006 Graduate Student Research Grant

National Scholars Honor Society

- 2006 Award of Achievement

Northern Illinois University

- Ira Edgar Odom Scholarship for Mineralogy and Petrology
- Goldich Fund Award