

# Audrey Peterson

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## Background Summary

An individual who is motivated to achieve set goals and thrives on intellectual challenges. Excellent communication and interpersonal skills and strong desire to enter the scientific research field.

## Education

4 years of High School science. James Madison Memorial High School, 2002  
Madison, Wisconsin

- General Science including basic physics, biology, earth science and chemistry.
- Chem. study
- Earth science highlighting basic scientific reasoning and procedures.
- Aerospace with an emphasis in applied physics concepts and basic aerodynamics.

Currently pursuing a bachelor's degree in science, Majoring in Physics and Geophysics at the University of Wisconsin – Milwaukee

Relevant courses taken:

- Astronomy 103 – Survey of Astronomy
- Computer Science 152 – Computer Programming with C++
- Geo Sci 100 – Introduction to the Earth
- Geo Sci 301 – Introduction to Mineralogy
- Geo Sci 316 – Introduction to Geophysics
- Calculus 225 – Calculus with Precalculus I
- Calculus 226 - Calculus with Precalculus II
- Calculus 232 – Calculus with Analytical Geometry
- Calculus 233 – Calculus with Analytical Geometry II
- Physics 209 – General Physics I, calculus treatment and related lab
- Physics 210 – General Physics II, calculus treatment and related lab
- Physics 309 – Modern Physics
- Chemistry 105 – Chemistry for Engineers and related lab

## Skills

Proficient with MS XP, Linux, MS Office, Internet Explorer, Netscape, MS Visual Basic, Telnet, UNIX and IDL.

Some experience with C++ and Fortran 77.

Skilled at information research, particularly internet research.

Technical ability and experience with computer hardware and maintenance.

Skilled at sample preparation and work with polarizing microscopes and scanning electron microprobes.

## Related Experience

### **Work**

- Employed at Los Alamos National Lab as a research assistant to alter physical parameters for computational astrophysical models.
- Employed on-campus as a research assistant to prepare and perform glass and mineral samples for geochemical analysis.
- Employed on-campus as a Computer Consultant to manage campus computer labs and take client calls on software, hardware and internet-based programs. Internal training received on hardware and various software packages.

➤ Currently a junior member of the American Astronomical Society and the American Geophysical Union and have presented at national meetings of both societies.

### **School Work**

- Participated in available undergraduate research program with publication prospects and presented at system wide symposium.
- Worked in Visual Basic on basic commands, data input and arrays
- Worked in Maple on calculus problems such as syntax, functions, trigonometry, integrals, differentiation, logarithms and limits.
- Worked in C++ and UNIX on functions, iteration, recursion and data input and output.
- Volunteered for National Engineering Week.
- Received scholarship from the Wisconsin Space Grant Consortium

### **Published Work**

Co-Author on two research papers that are due to be published.

References available on request.