

# Angela M. Linn

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References available upon request

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## Summary of Qualifications

### Analytic Skills

- Familiarity with statistical methods used to analyze data
- Expertise in complex modern physics concepts
- Experience using high level mathematics to solve problems
- Ability to learn concepts and skills quickly and efficiently

### Computer Skills

- Languages: Extensive knowledge of C/C++, experience with Fortran, HTML, Perl
- Operating Systems: Windows 95/98/NT/2000/XP, Unix/Linux
- APIs: basic knowledge of OpenGL

### Communication Skills

- Experience explaining complex concepts and presenting research results at various technical levels, from first year college students to experts in the field
- Strong technical writing skills

## Work Experience

### Researcher

June 1999 – Present                      The Ohio State University                      Columbus, OH

- Investigate research topics such as the ionization history of the universe, the Cosmic Microwave Background, dark energy/quintessence, and the Ly- $\alpha$  forest
- Operate in a self-motivated work environment
- Explore how complex systems interconnect and affect each other
- Statistically analyze the relation of data to theory by solving non-analytic differential equations through numerical integration and by minimizing complex functions
- Compute numerical solutions primarily using C++ in a Unix environment, utilizing the Beowulf Cluster at the Ohio Supercomputer Center
- Program original code and adapt pre-existing code
- Collaborate and consult with a diverse group of international researchers
- Write reports of research, resulting in two publications in a professional journal

### Physics Instructor

September 1998 – June 1999                      The Ohio State University                      Columbus, OH

- Led recitation section for first year calculus-based physics course
- Lectured on material, led class discussions, graded homework and exams, proctored exams, assigned grades
- Communicated difficult concepts to individual students through one-on-one tutoring
- Listened to students' concerns and provided appropriate feedback

## Education

### Ph.D. Physics

August 2003 (expected)                      The Ohio State University                      Columbus, OH

- Supported by a grant from the U.S. Department of Energy and two fellowships

### M.S. Physics

June 2001    The Ohio State University                      Columbus, OH

- Awarded the top university fellowship and the top departmental fellowship
- Master's Thesis topic: "The Ionization History of the Universe and the Cosmic Microwave Background"

### B.S. Physics, B.S. Astronomy

May 1997    University of Kansas    Lawrence, KS

- Awarded five local, two university, and two national scholarships, including the prestigious Barry M. Goldwater Scholarship in 1995
- Studied abroad at Stirling University, Scotland, Fall 1996
- Graduated with Distinction and with Honors in Astronomy, GPA 3.9, major GPA 3.5