

Christopher H. Greer

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EXPERIENCE **Graduate Research Fellow**, University of Chicago. Chicago, IL
June 2002 to Present

- Developed critical analog and digital electronics for a novel, distributed control system as part of the construction and commissioning of a new interferometric observatory
- Authored a custom MATLAB and Perl utility to monitor observatory performance online
- Applied Markov chain Monte Carlo techniques to analysis of data from several observatories to further understanding of galaxy clusters

Research Assistant, Northwestern University. Evanston, IL
September 2000 to June 2002

- Characterized performance of Viper telescope optics with ray tracing and astronomical data analysis, increasing observing efficiency
- Deployed to the South Pole from November to December 2001

Research Assistant, National Optical Astronomy Observatory. Tucson, AZ
June 2000 to August 2001

- Contributed innovative reduction techniques for the NOAO Deep Wide-Field Survey
- Constrained models of galaxy evolution in the early Universe with survey data
- Observed with the Mayall 4-meter telescope at Kitt Peak National Observatory
- Implemented an independent study of small-scale structure in interstellar gas

Research Assistant, Northwestern University. Evanston, IL
September 1998 to January 2000

- Implemented a supernova survey using archival Hubble Space Telescope data
- Developed a data analysis pipeline with publicly available analysis tools and custom C++ and IDL programs

EDUCATION **University of Chicago**. Chicago, IL
June 2002 to Present

- Doctoral Candidate in Astronomy and Astrophysics, 2003 to Present
- M.S. in Astronomy and Astrophysics, 2004
- National Science Foundation Graduate Research Fellow

Northwestern University. Evanston, IL
September 1998 to June 2002

- B.A. in Physics with Honors and Mathematics, Magna cum laude
- Barry M. Goldwater Scholarship
- Phi Beta Kappa

SKILLS **Data Analysis:** Reduction for low Signal-to-Noise Data. Bayesian Statistics. Markov chain Monte Carlo techniques. Fourier signal analysis. Image analysis.

Computer: *Programming:* C/C++, IDL, MATLAB, Tcl/Tk, Perl, FORTRAN. *Software:* Maple, Mathematica, L^AT_EX. *Operating Systems:* Linux, FreeBSD, Windows, Mac OS.

Miscellaneous: Familiar with German. Machining techniques. Astronomical Observing. Project Management.

REFERENCES Available on request.