

REED D. MEYER

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U.S. Citizen

Objective

An information technology position that requires a strong science background, in a setting such as research or the game industry.

Education

- Ph.D., Astronomy, Yale University, 2002
- M.Phil., Astronomy, Yale, 1996
- M.S., Astronomy, Yale, 1994
- B.S. with Distinction and with Honors, Physics, The Pennsylvania State University, 1993
- B.S. with Distinction and with Honors, Astronomy and Astrophysics, Penn State, 1993
- Mathematics minor, Penn State, 1993

Academic Honors and Awards

- Garfinkel Prize Fellowship, Yale, 1993
- Phi Beta Kappa, Penn State, 1993
- Braddock Scholarship, Penn State, 1989–1993 (four year, full scholarship)
- University Scholar, Penn State, 1989–1993

Organizations

- Sigma Xi, the Scientific Research Society, 1993–present (Full Life Member)
- Astronomical Society of the Pacific, 2003–2004
- Penn State Astronomy Club, 1989–1993 (President 1991–1992)

Avocations

- Musical composition and performance
- Fiction writing
- Computer programming and font design
- Basketball

Bibliography

- Twenty scientific publications, including two theses and five refereed journal articles
- Non-scientific works include computer software, graphic arts, literature, and musical compositions

Computer Experience

- **Scientific programming.** Instrumentation, data reduction and analysis, and physical simulations. Ample experience with device drivers, nonlinear function optimization, and statistical techniques.
- **Programming languages.** C/C++ since 1990 (GNU, Visual Studio). Also proficient in FORTRAN, IDL, BASIC, and HTML. Familiar with Rexx, Lisp, others.
- **System administration.** Assembled and maintained more than 15 Linux and Windows machines, including two small networks. Linux server administrator.

Research Experience

- **2002–present: Post-doctoral Fellow, Rochester Institute of Technology (RIT).** Co-developed RITMOS, the first multi-object spectrometer that successfully incorporates a micromirror array.
- **2000–2001: Research Assistant, RIT.** Built RYTSI, the RIT–Yale Tip-tilt Speckle Imager, used regularly since 2001 for binary star observations at Kitt Peak.
- **1994–2000: Research Assistant, Yale.** Measured binary star differential magnitudes. Created technique to infer stellar properties from the magnitudes. Upgraded telescope instrumentation in Argentina.
- **1990, 1992–1993: Undergraduate Research Assistant, Penn State.** Modeled pulsar X-ray spectra.

Teaching Experience

- **2002–2003: Adjunct Assistant Professor, RIT.** Taught “Programming for Imaging Science II.”
- **1994–1999: Teaching Assistant, Yale.** Gained roughly 1,250 hours of experience assisting seven undergraduate classes.
- **1991: Peer Tutor in Writing, Penn State.**

References

Contact information available upon request.