

**Tyler E. Nordgren**  
**Assistant Professor of Physics**

University of Redlands  
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**Education**

**Cornell University** Astronomy - Ph.D. 1997

*Ph.D. Thesis title - Dynamics of Galaxy Pairs: An Optical and HI Study*

**Cornell University** Astronomy - M.S. 1994

**Reed College** Physics - B.A. 1991

*B.A. Thesis title - Measurement of the Beam Astigmatism in Semiconductor Lasers*

**Teaching Experience**

(2001-present) Assistant Professor of Physics, University of Redlands

Physics 231, General Physics I (calculus based)

Physics 108, Astronomy Abroad (Mayterm)

[http://newton.uor.edu/facultyfolder/tyler\\_nordgren/May2003/](http://newton.uor.edu/facultyfolder/tyler_nordgren/May2003/)

Physics 103, General Astronomy

[http://newton.uor.edu/facultyfolder/tyler\\_nordgren/astronomy/](http://newton.uor.edu/facultyfolder/tyler_nordgren/astronomy/)

(1991-1994) Graduate Teaching Assistant, Astronomy Department, Cornell University

Astronomy 103, summer semester - The Nature of the Universe

Astronomy 102, spring semesters - Our Solar System

Astronomy 101, fall semesters - Our Home in the Universe

**Research Experience**

(2001-present) Assistant Professor of Physics, University of Redlands

NSF Grant sub-contractor with Deidre Hunter at Lowell Observatory: (928) 774-3358

(2001) Postdoc, Lowell Observatory

Supervisor: Deidre Hunter

(1997-2001) Postdoc, Navy Prototype Optical Interferometer, U.S. Naval Observatory

Supervisor: Don Hutter: (928) 773-4868

(1994-1997) Graduate Research Assistant, Astronomy Department, Cornell University

Advisor: Yervant Terzian: (607) 255-4935

(1990) REU Summer Student, Astronomy Department, Cornell University

### **Invitations**

- (2001) Invited speaker: American Astronomical Society, Pasadena, California
- (2000) Invited *Nature* review paper: "Optical Astronomy: The Resolution Revolution", *Nature*, 407, 462.
- (1999) Invited speaker: American Association of Physics Teachers, San Antonio , Texas
- (1997-1999) Invited speaker: Coconino County Amateur Astronomers

### **Service and Outreach**

- (2002) Member Biology Department search committee.
- (2001) Referee article for *ApJ*.
- (2000) Referee article for *Nature*.
- (2000) Articles written for Lowell Observer newsletter.
- (2000) Articles written for the Navy Prototype Optical Interferometer Public web page.  
<http://ad.usno.navy.mil/npoi/science.htm>
- (1999-2000) Assisted with Lowell Observatory's Astronomy Outreach Program for Navajo and Hopi Schools.
- (1998-2000) Design of 2003 Mars Rovers Sundial.
- (1991-1997) Operation of Cornell University's Fiertes Observatory for student labs and public programs.

### **Professional Societies, Honors and Awards:**

- (2001) NSF research grant
- (1994-present) American Astronomical Society
- (1997) Eleanor Norton York Prize in Astronomy, Cornell University
- (1995-1996) NASA Space Grant Fellowship, Cornell University

**Refereed Publications**

1. Dyck, H. M. & **Nordgren**, T. E., 2002, “The Effect of TiO Absorption on Optical and Infrared Angular Diameters of Cool Stars”, *AJ*, 124, 541
2. **Nordgren**, T. E., Lane, B. F., Hindsley, R. B., & Kervella, P., 2002, “Calibration of the Barnes-Evans Relation Using Interferometric Observations of Cepheids”, *AJ*, 123, 3380
3. Lane, B. F., Creech-Eakman, M. J., & **Nordgren**, T. E., 2002, “Long Baseline Interferometric Observation of Cepheids”, *ApJ*, 573, 330
4. Aufdenberg, J. P., Hauschildt, P. H., Baron, E., **Nordgren**, T. E., Howard, I. D., Burnley, A., Gordon, K. D., & Stansberry, J. A., 2002 “The Spectral Energy Distribution and Mass-Loss Rate of the A-Type Supergiant Deneb”, *ApJ*, 570, 344
5. **Nordgren**, T. E., Sudol, J. J., & Mozurkewich, D., 2001, “Comparison of Stellar Angular Diameters from the NPOI, the Mark III Optical Interferometer, and the Infrared Flux Method”, *AJ*, 122, 2707
6. Hummel, C. A., Carquillat, J.-M., Genestet, N., Griffin, R. F., Boden, A. F., Hajian, A. R., Mozurkewich, D. & **Nordgren**, T. E., 2001, “Orbital and Stellar Parameters of Omicron Leonis from Spectroscopy and Interferometry”, *AJ*, 121, 1623
7. Armstrong, J.T, **Nordgren**, T. E., Germain, M. E., Hajian, A. R., Hindsley, R. B., Hummel, C. A. & Thessin, R. N., 2001, “Diameters of  $\delta$  Cephei and  $\eta$  Aquilae Measured with the Navy Prototype Optical Interferometer”, *AJ*, 121, 476
8. **Nordgren**, T. E., Chengalur, J. N., Salpeter, E. E., & Terzian, Y., 2000, “The 1.0 Mpc Galaxy Pair Sample”, *ApJ*, 544, 176.
9. **Nordgren**, T. E., Armstrong, J. T., Germain, M. E., Hindsley, R. B., Hajian, A. R., Sudol, J. J., & Hummel, C. A., 2000, “Astrophysical Quantities of Cepheid Variables Measured with the NPOI”, *ApJ*, 543, 972.
10. Hummel, C. A., White, N. M., Elias II, N. M., Hajian, A. R., & **Nordgren**, T. E., 2000, “Zeta Orionis A is a Double Star”, *ApJL*, 540, L91.
11. **Nordgren**, T. E., & NPOI Collaboration, 1999, “Stellar Angular Diameters of Late-Type Giants and Supergiants Measured with the Navy Prototype Optical Interferometer”, *AJ*, 118, 3032.
12. **Nordgren**, T. E., Chengalur, J. N., Salpeter, E. E., & Terzian, Y., 1998, “Very Wide Galaxy Pairs of the Northern Sky”, *ApJSupp*, 115, 43.
13. **Nordgren**, T. E., Chengalur, J. N., Salpeter, E. E., & Terzian, Y., 1997, “Close Galaxy Pairs in Regions of Low and Medium Galaxy Density: The Southern Sky”, *AJ*, 114, 913.
14. **Nordgren**, T. E., Chengalur, J. N., Salpeter, E. E., & Terzian, Y., 1996, “Close Galaxy Pairs in Regions of Medium Galaxy Density: The Northern Sky”, *AJ*, 114, 77.
15. **Nordgren**, T. E., Cordes, J. M., & Terzian, Y., 1992, “The Scale Height of the Galactic Free Electron Cloud”, *AJ*, 104, 1465.