Ryan P. **Norris**

Assistant Professor of Physics, New Mexico Tech

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Education

Georgia State University — *Atlanta, GA*

Ph.D. Astronomy, M.S. Physics (con. Astronomy) — *August 2019*

- Dissertation: "Seeing Stars Like Never Before: A Long-term Interferometric Imaging Survey of Red Supergiants "

Georgia State University — *Atlanta, GA*

M.S. Physics (concentration Astronomy) — *August 2019*

The Catholic University of America — *Washington, DC*

M.S. Physics — *May 2012*

Michigan State University — *East Lansing, MI*

B.S. Astrophysics — *May 2009*

Experience

New Mexico Tech — *Socorro, NM*

Assistant Professor of Physics — *Aug. 2020-PRESENT*

Georgia Tech Research Institute — *Atlanta, GA*

Research Scientist II — *Sep. 2019-Jun. 2020*

Georgia State University — *Atlanta, GA*

Graduate Student Research and Teaching Assistant — *Aug. 2012 - June 2019*

The Catholic University of America — *Washington, D.C.*

Graduate Student Researcher — *Jun. 2005 - Jun. 2009*

Goddard Space Flight Center — *Greenbelt, MD*

SESI Intern — *Jun. 2004-Aug.2004*

National Superconducting Cyclotron Laboratory — *East Lansing, MI*

Undergraduate Researcher — *Sep. 2007 - May. 2008*

National Superconducting Cyclotron Laboratory — *East Lansing, MI*

Professorial Assistant — *Sep. 2005 - May. 2007*

Teaching

PHYS 2320: Computational Physics II.I

New Mexico Tech

Undergraduate Class

Spring 2022

- Course on applications of computational methods to solving problems in electricity and magnetism, basics of programming with Python
- Designed and taught lectures and labs, designed and graded assignments and exams, offered individual assistance during office hours
- 14 students

PHYS 1310: General Physics I

New Mexico Tech

Undergraduate Class

Fall 2021

- Course on classical mechanics, thermodynamics, and waves and oscillations
- Designed and taught lectures, designed and graded assignments and exams, offered individual assistance during office hours
- 57 students

PHYS 325: Astrophysics I

New Mexico Tech

Undergraduate Class

Fall 2021

- Course on stellar astrophysics at the 3rd year undergraduate level. Also serves as the first astronomy/astrophysics course for students seeking a concentration in astrophysics.
- Designed and taught lectures, designed and graded assignments and exams, offered individual assistance during office hours
- 5 students

PHYS 1310: General Physics I

New Mexico Tech

Undergraduate Class

Spring 2021

- Online course on classical mechanics, thermodynamics, and waves and oscillations
- Designed and taught lectures, designed and graded assignments and exams, offered individual assistance during office hours
- 59 students

PHYS 325: Astrophysics I

New Mexico Tech

Undergraduate Class

Fall 2020

- Hybrid course on stellar astrophysics at the 3rd year undergraduate level. Also serves as the first astronomy/astrophysics course for students seeking a concentration in astrophysics.
- Designed and taught lectures, designed and graded assignments and exams, offered individual assistance during office hours
- 10 students

ASTR 1020: Stellar & Galactic Astronomy

Georgia State University

Undergraduate Class

Spring 2017

- Part of a two semester intro-level course, ASTR 1020 covers the physical properties of stars, their formation and evolution, as well as our galaxy and others, and the origin and evolution of the Universe
- Designed and taught lectures, designed and graded assignments and exams, offered individual assistance during office hours
- 41 students

ASTR 1010: Astronomy of the Solar System & ASTR 1020: Stellar & Galactic Astronomy

Georgia State University

Undergraduate Lab

Fall 2012 - Spring 2016

- The laboratory portion of a two-semester course on astronomy. Graduate lab instructors prepare an introduction to the topic, assist students with completing the lab and understanding key concepts, and evaluate work submitted by students after completing each weekly lab
- Taught 10 sections of ASTR 1010 lab, $\sim$ 15 students/section
- Taught 9 sections of ASTR 1020 lab, $\sim$ 20 students/section

Students Advised in Research

2021-Present	**Thomas Gaudin**, Master of Science (Spring 2022)	*New Mexico Tech*
2020-Present	**David Frothingham**, Graduate Student	*New Mexico Tech*
2021-2021	**Yesinia Beltran**, Undergraduate Student	*New Mexico Tech*
2021-2021	**Isaac Edelman**, Undergraduate Student	*New Mexico Tech*
2022-Present	**Celeste Flores**, Undergraduate Student	*New Mexico Tech*
2021-2021	**Keith Lucero**, Undergraduate Student	*New Mexico Tech*
2021-2021	**Andrew Kotoski**, Undergraduate Student	*New Mexico Tech*
2021-2021	**Lucian Sahd**, Undergraduate Student	*New Mexico Tech*

Research Funding

LEAPS-MPS:High Resolution Studies of Interacting Binaries.

New Mexico Tech

Principal Investigator

August 2022-July 2024

- NSF
- $248,151
- 1 summer months/year FTE.
- Funds one graduate student for two years and provides two years of undergraduate funding
- **Awarded**

High Resolution Look at the Lives of Red Supergiants

New Mexico Tech

Principal Investigator

August 2022-July 2025

- NSF
- $614,107
- 2 summer months/year FTE.
- Funds two graduate students for two years and provides two years of undergraduate funding
- **Declined**

Fizeau Exchange Program Travel Award

Observatoire de la Côte d'Azur, Nice, France

Awardee

December 2016

- *Travel grant for collaborating on imaging for evolved stars. Awarded by the Optical Infrared Co-ordination Network, $1,588.35*

Conference Experience for Undergraduates Travel Award

Newport News, VA

Awardee

April 2007

- *Grant for travel to present research at a Division of Nuclear Physics American Physical Society Meeting*

Professional Development

2021	**Participant/Team Lead**, Hyperspace Challenge	*Online*
2021	**Participant**, University of South Florida Sarasota Manatee Campus Summer Grant Writing Workshops Program	*Online*
2020	**Participant**, New Faculty Workshop, American Association of Physics Teachers	*Online*
2020	**Participant**, Sparking Technology Innovation and Growth (Based on NSF I-Corps program	*Atlanta, GA*

Service and Leadership

2022-Present	**Member,** Telescope Allocation Committee	*NOIRLab*
2022-2022 (disbanded upon completion)	**Member,** Working Group on Mental Health	*New Mexico Tech*
2022-Present	**Member,** Physics Department Graduate Admissions Committee	*New Mexico Tech*
2020-Present	**Member,** Physics Department Graduate Studies Committee	*New Mexico Tech*
2020-Present	**Member,** Physics Department Graduate Student Recruitment Video Committee	*New Mexico Tech*
2018	**Participant,** Early Career Focus Session for the Decadal Survey on Astronomy and Astrophysics	*Washington, DC*
2016-2017	**President,** Astronomy Peer Advising Leaders	*Georgia State University*
2016-2017	**President,** Graduate Student Alliance	*Georgia State University*
2015-2016	**Treasurer,** Astronomy Peer Advising Leaders	*Georgia State University*
2014-2017	**Mentor,** Astronomy Peer Advising Leaders	*Georgia State University*
2013-2015	**Graduate Student Representative,** College of Arts & Sciences Graduate Council	*Georgia State University*
2010-2012	**Senator, Physics Department,** Graduate Student Association	*The Catholic University of America*
2008-2009	**Career Researcher,** Journal of Young Investigators	

Outreach

Outreach Program

GTRI

Volunteer — *Jan- Mar. 2020*

- Assisted with laser and other physics based outreach initiatives at schools in the Atlanta area.

Hard Labor Creek Observatory Nights

Georgia State University

Volunteer — *Aug. 2012 - June 2019*

- Assisting with open house nights at the observatory

GSU Eclipse Event 2017

Rabun Gap, GA

GSU Volunteer — *Aug. 2017*

- Answered questions, taught visitors to make pinhole cameras, operated solar telescopes on day of event. Prior to event, helped write script and collect images for informational film at event site. Co-performed in informational film.

Mountain Laurel Learning Cooperative

Thomas, WV

Presenter — *May 2017*

- Presented to elementary school group as part of dark sky awareness initiative in Tucker County, West Virginia.

Fernbank Museum Science at Hand Day

Atlanta, GA

Volunteer — *Nov. 2014*

- Demonstrated concepts in physics and astronomy and answered questions at an event geared towards elementary school children and their families .

Stow-Munroe Falls Kimpton Junior High

Stow, OH

Presenter — *Dec. 2013*

- Presented to junior high group about astronomy and steps to become an astronomer

Fernbank Museum Astronomy Day

Atlanta, GA

Volunteer

Sep. 2012

- Demonstrated concepts in physics and astronomy and answered questions at an event geared towards elementary school children and their families .

Smithsonian Folklife Festival

Washington, DC

Volunteer

Jun. 2008

- Answered questions and demonstrated concepts in cosmology at the NASA/WMAP exhibit.

Michigan State FRIB Day

East Lansing, MI

Volunteer

Oct. 2008

- Answered questions and demonstrated concepts in nuclear physics for a day bringing awareness to the construction of the Facility for Rare Isotope Beams at Michigan State University.

Michigan State University Science Theatre

East Lansing, MI

Presenter and Script Writer

Sep. 2005 - Aug. 2009

- Performed skits and presented demos on science for K-12 in Lansing; helped write and develop a skit on nanotechnology and quantum mechanics.

Organizing Committees

2015	**Local Organizing Committee Member,** IAU Symposium 314: Young Stars and Planets Near the Sun	*Atlanta, GA, USA*
2010	**Local Organizing Committee Member,** CUA Graduate Student Association 1st Annual Interdisciplinary Conference	*Washington, DC*

Observing Time Awarded

CHARA Array (MIRCx)

Mt. Wilson, CA

- October 30,2021
- Sept 27,2021
- August 18,2021
- July 30-31,2021
- June 23-26,2021
- May 20-23,2021
- July 31, 2020
- June 4, 17, 25 2020
- May 28, 2020
- June 9-10, 2019
- May 19-21, 2019
- Aug. 22 - 24, 2018
- Jul. 12 - 16, 2018
- Jun. 20 - 21, 2018
- May. 29 - 31, 2018
- Sep. 17 - 20, 2017
- Aug. 16 - 18, 2017

NASA Infrared Telescope Facility

Mauna Kea, HI

- Nov. 18, 2021
- Sept. 1, 2021
- Nov. 17, 2017
- Oct. 4, 2017
- Sep. 26, 2016
- Sep. 6, 2016

CHARA Array (MIRC)

Mt. Wilson, CA

- Oct. 6 - 16, 2016
- Aug. 25 - Sep. 10, 2016
- Oct. 23 - 27, 2015
- Aug. 17 - Aug. 24, 2015

Other Observing Experience

- Perkins 72" Telescope (MIMIR), Lowell Observatory; Flagstaff, AZ: Nov. 12 -16, 2013
- Miller 24" Telescope, Hard Labor Creak Observatory; Rutledge, GA: Spring, Summer 2014

Presentations

GAPS 2021 — *Online*

Progress in Optical Interferometric Observations of Red Supergiants — *Jun. 2021*

VOLTRON Meeting — *Albuquerque, NM*

The Orbital Calibration (OrCa) CubeSat — *Feb. 2020*

AAS 2019 Summer Meeting — *St.Louis, MO*

High Resolution Imaging of Red Supergiants: A long-term imaging project with the CHARA Array — *Jun. 2019*

AAS 2019 Winter Meeting: Splinter Session, High Angular Resolution View of Stars (invited) — *Seattle, WA*

Studying Convection in Supergiant Stars — *Jan. 2019*

AAS 2019 Winter Meeting — *Seattle, WA*

More than Just Spots: Detailed Imaging of Evolved Stars Using Optical Interferometry — *Jan. 2019*

SPIE Astronomical Telescopes + Instrumentation — *Austin, Tx*

Staring at Stars Makes you See Spots: Verifying Images of Red Supergiant Stars — *Jun. 2018*

ESO Workshop on Imaging of Stellar Surfaces — *ESO Garching*

Pushing CHARA to its limit: A pathway toward 80x80 pixel images of stellar surfaces — *Mar. 2018*

AAS 2017 Winter Meeting — *Dallas, Tx*

Seeing Stars Like Never Before: A Multi-Year Interferometric Imaging Study of Red Supergiants in the H-Band — *Jan. 2017*

2016 CHARA Meeting — *University of Nice*

Updates on an Imaging Survey of Red Supergiants with MIRC — *Mar. 2016*

2015 CHARA Meeting — *Georgia State University*

An Imaging Survey of Red Supergiants — *Mar. 2015*

GREAT Workshop on Comparative Modeling of Stellar Spectra — *University of Vienna*

Modeling Two K Stars with ATLAS Grids — *Aug. 2011*

Publications

Journal Publications

Space Telescope and Optical Reverberation Mapping Project. IX. Velocity-Delay Maps for Broad Emission Lines in NGC 5548
Horne, K., et, al.
ApJ, 907 p. 76, Feb. 2021.

A dusty veil shading Betelgeuse during its Great Dimming
Montargès, M., et al.
Nature, 594 pp. 365–368, Jan. 2021.

Long Term Evolution of Surface Features on the Red Supergiant AZ Cyg
Norris, R., et al.
ApJ, 919 p. 124, Oct. 2021.

Space Telescope and Optical Reverberation Mapping Project. XII. Broad-line Region Modeling of NGC 5548
Williams, P. R., et al.
ApJ, 902 p. 74, Oct. 2020.

Space Telescope and Optical Reverberation Mapping Project. VIII. Time Variability of Emission and Absorption in NGC 5548 Based on Modeling the Ultraviolet Spectrum
Kriss, G. A., et al.
ApJ, 881 p. 153, Aug. 2019.

The convective photosphere of the red supergiant CE Tauri. I. VLTI/PIONIER H-band interferometric imaging
Montargès, M., **Norris, R.**, Chiavassa, A., Tessore, B., Lèbre, A., Baron, F.,
A&A, 614 A12, June 2018.

Asymmetries on red giant branch surfaces from CHARA/MIRC optical interferometry
Chiavassa, A., **Norris, R.**, Montargès, M., Ligi, R., Fossati, L., Bigot, L., Baron, F., Kervella, P., Monnier, J. D., Mourard, D., Nardetto, N., Perrin, G., Schaefer, G. H., ten Brummelaar, T. A., Magic, Z., Collet, R., Asplund, M.,
A&A, 600 p. L2, Apr. 2017.

Space Telescope and Optical Reverberation Mapping Project. VII. Understanding the Ultraviolet Anomaly in NGC 5548 with X-Ray Spectroscopy
Mathur, S., et al.
ApJ, 846 p. 55, Sept. 2017.

Space Telescope and Optical Reverberation Mapping Project. V. Optical Spectroscopic Campaign and Emission-line Analysis for NGC 5548
Pei, L., et al.
ApJ, 837 p. 131, Mar. 2017.

Space Telescope and Optical Reverberation Mapping Project.VI. Reverberating Disk Models for NGC 5548
Starkey, D., et al.
ApJ, 835 p. 65, Jan. 2017.

Space Telescope and Optical Reverberation Mapping Project. III. Optical Continuum Emission and Broadband Time Delays in NGC 5548
Fausnaugh, M. M., et al.
ApJ, 821 p. 56, Apr. 2016.

Space Telescope and Optical Reverberation Mapping Project. IV. Anomalous Behavior of the Broad Ultraviolet Emission Lines in NGC 5548
Goad, M. R., et al.
ApJ, 824 p. 11, June 2016.

Stellar Atmospheres, Atmospheric Extension, and Fundamental Parameters: Weighing Stars Using the Stellar Mass Index
Neilson, H. R., Baron, F., **Norris, R.**, Kloppenborg, B., Lester, J. B.,
ApJ, 830 p. 103, Oct. 2016.

The Multiplicity of Massive Stars: a High Angular Resolution Survey With the Guidance Sensor
Aldoretta, E. J., Caballero-Nieves, S. M., Gies, D. R., Nelan, E. P., Wallace, D. J., Hartkopf, W. I., Henry, T. J., Jao, W.-C., Maíz Apellániz, J., Mason, B. D., Moffat, A. F. J., **Norris, R. P.**, Richardson, N. D., Williams, S. J.,
AJ, 149 p. 26, Jan. 2015.

The Mass of the Central Black Hole in the Nearby Seyfert Galaxy NGC 5273

Bentz, M. C., Horenstein, D., Bazhaw, C., Manne-Nicholas, E. R., Ou-Yang, B. J., Anderson, M., Jones, J., **Norris, R. P.**, Parks, J. R., Saylor, D., Teems, K. G., Turner, C.,
ApJ, 796 p. 8, Nov. 2014.

Comparative modelling of the spectra of cool giants
Lebzelter, T., Heiter, U., Abia, C., Eriksson, K., Ireland, M., Neilson, H., Nowotny, W., Maldonado, J., Merle, T., Peterson, R., Plez, B., Short, C. I., Wahlgren, G. M., Worley, C., Aringer, B., Bladh, S., de Laverny, P., Goswami, A., Mora, A., **Norris, R. P.**, Recio-Blanco, A., Scholz, M., Thévenin, F., Tsuji, T., Kordopatis, G., Montesinos, B., Wing, R. F.,
A&A, 547 A108, Nov. 2012.

A simulation tool for Recoil Distance Method lifetime measurements at NSCL
Adrich, P., Enderich, D., Miller, D., Moeller, V., **Norris, R. P.**, Starosta, K., Vaman, C., Voss, P., Dewald, A.,
Nuclear Instruments and Methods in Physics Research A, 598 pp. 454–464, Jan. 2009.

Collectivity of neutron-rich palladium isotopes and the valence proton symmetry
Dewald, A., Starosta, K., Petkov, P., Hackstein, M., Rother, W., Adrich, P., Amthor, A. M., Baumann, T., Bazin, D., Bowen, M., Chester, A., Dunomes, A., Gade, A., Galaviz, D., Glasmacher, T., Ginter, T., Hausmann, M., Jolie, J., Melon, B., Miller, D., Moeller, V., **Norris, R. P.**, Pissulla, T., Portillo, M., Shimbara, Y., Stolz, A., Vaman, C., Voss, P., Weisshaar, D.,
, 78 p. 051302, Nov. 2008.

Shape and Structure of N=Z Ge64: Electromagnetic Transition Rates from the Application of the Recoil Distance Method to a Knockout Reaction
Starosta, K., Dewald, A., Dunomes, A., Adrich, P., Amthor, A. M., Baumann, T., Bazin, D., Bowen, M., Brown, B. A., Chester, A., Gade, A., Galaviz, D., Glasmacher, T., Ginter, T., Hausmann, M., Horoi, M., Jolie, J., Melon, B., Miller, D., Moeller, V., **Norris, R. P.**, Pissulla, T., Portillo, M., Rother, W., Shimbara, Y., Stolz, A., Vaman, C., Voss, P., Weisshaar, D., Zelevinsky, V.,
Physical Review Letters, 99 p. 042503, July 2007.

Application of the time-of-flight technique for lifetime measurements with relativistic beams of heavy nuclei
Chester, A., Adrich, P., Becerril, A., Bazin, D., Campbell, C. M., Cook, J. M., Dinca, D.-C., Mueller, W. F., Miller, D., Moeller, V., **Norris, R. P.**, Portillo, M., Starosta, K., Stolz, A., Terry, J. R., Zwahlen, H., Vaman, C., Dewald, A.,
Nuclear Instruments and Methods in Physics Research A, 562 pp. 230–240, June 2006.

Abstracts and Proceedings

The Next Phase of the MRO Interferometer Project
Creech-Eakman, M. J., Romero, V., Haniff, C., Buscher, D., Young, J., Salcido, C., Chavez, G., Collins, R., Cook, W., Farris, A., Gino, C., Luis, J., Mortimer, D., **Norris, R.**, Pino, J., Seneta, B., Sun, D., Gamiz, V.,
37th Annual New Mexico Symposium p. 18, Nov. 2021.

An Interferometric Imaging Survey of Red Supergiant Stars
Norris, R.
The 20.5th Cambridge Workshop on Cool Stars, Stellar Systems, and the Sun (CS20.5) p. 263, Mar. 2021.

More Than Just Spots: Detailed Imaging of Evolved Stars Using Optical Interferometry
Norris, R., Baron, F. R., Chiavassa, A., Montargès, M., Paladini, C., Young, J. S.,
*American Astronomical Society Meeting Abstracts #233*vol. 233 336.05, Jan. 2019.

High resolution imaging of red supergiants: A long-term imaging project with the CHARA Array
Norris, R. P., Baron, F.,
*American Astronomical Society Meeting Abstracts*vol. 234 p. 215.03, June 2019.

Characterizing the photospheric convection of red supergiant stars at high angular resolution
Montargès, M., **Norris, R.**, Tessore, B., López Ariste, A., Chiavassa, A., Lèbre, A.,
SF2A-2018: Proceedings of the Annual meeting of the French Society of Astronomy and Astrophysics p. Di, Dec. 2018.

Staring at stars makes you see spots: Verifying images of red supergiant stars
Norris, R. P., Baron, F.,
*Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series*vol. 10701 pp. 10701 –10701 –11 2018.

The photosphere of red supergiant stars as seen by optical interferometry
Montargès, M., Kervella, P., Perrin, G., Chiavassa, A., **Norris, R.**, Ridgway, S. T., Decin, L.,
SF2A-2017: Proceedings of the Annual meeting of the French Society of Astronomy and Astrophysics pp. 39–43, Dec. 2017.

Seeing Stars Like Never Before: A Multi-Year Interferometric Imaging Study of Red Supergiants in the H-Band.
Norris, R. P., Baron, F.,
*American Astronomical Society Meeting Abstracts #229*vol. 229 p. 232.01, Jan. 2017.

Studying the Environment of Symbiotic Stars with Spitzer IRS Spectroscopy
Norris, R. P., Bruhweiler, F. C., McCollum, B., Wahlgren, G.,

*American Astronomical Society Meeting Abstracts #219*vol. 219 p. 433.02, Jan. 2012.

The Infrared Variation of the Symbiotic Star BI Cru
Norris, R. P., Wahlgren, G. M., Bruhweiler, F. C., McCollum, B.,
*Why Galaxies Care about AGB Stars II: Shining Examples and Common Inhabitants*vol. 445 p. 359, Sept. 2011.

The Abundance Of Yttrium In Cool Stars
Norris, R. P., Wahlgren, G. M., Blackwell-Whitehead, R.,
*American Astronomical Society Meeting Abstracts #215*vol. 42 p. 339, Jan. 2010.

Plunger lifetime measurements after Coulomb excitation at intermediate beam energies
Dewald, A., Starosta, K., Petkov, P., Hackstein, M., Rother, W., Adrich, P., Amthor, A. M., Baumann, T., Bazin, D., Bowen, M., Chester, A., Dunomes, A., Gade, A., Galaviz, D., Glasmacher, T., Ginter, T., Hausmann, M., Jolie, J., Melon, B., Miller, D., Moeller, V., **Norris, R. P.**, Pissulla, T., Portillo, M., Shimbara, Y., Stolz, A., Vaman, C., Voss, P., Weisshaar, D.,
*American Institute of Physics Conference Series*vol. 1090 pp. 135–139, Jan. 2009.

Heavy Elements and Cool Stars
Wahlgren, G. M., Carpenter, K. G., **Norris, R. P.,**
*15th Cambridge Workshop on Cool Stars, Stellar Systems, and the Sun*vol. 1094 pp. 892–895, Feb. 2009.

Probing Exotic, Particle-Decay Isotopes: A New Application of the Recoil Distance Method
Voss, P., Adrich, P., Baumann, T., Bazin, D., Enderich, D., Miller, D., **Norris, R.**, Progovac, S., Ratkiewicz, A., Spyrou, A., Starosta, K., Thoennessen, M., Vaman, C., Dewald, A., Iwasaki, H.,
APS Division of Nuclear Physics Meeting Abstracts BD.003, Oct. 2008.

Segment Energy Calibrations for Segmented Germanium Detectors
Norris, R. P., Starosta, K., Weisshaar, D., Adrich, P., Chester, A., Dunomes, A., Miller, D., Moeller, V., Vaman, C., Voss, P.,
APS Division of Nuclear Physics Meeting Abstracts DA.059, Oct. 2007.

White Papers

The Future of Exoplanet Direct Detection
Monnier, J., et al.
BAAS, 51 p. 514, May 2019.

A Realistic Roadmap to Formation Flying Space Interferometry
Monnier, J., et al.
BAAS, 51 p. 153, Sept. 2019.

The Early Career Perspective on the Coming Decade, Astrophysics Career Paths, and the Decadal Survey Process
Moravec, E., et al.
BAAS, 51 p. 8, Sept. 2019.

Precision Analysis of Evolved Stars
Ridgway, S., et al. R., Baines, E., Creech-Eakman, M., Boyajian, T., De Beck, E., Dupree, A., Gies, D., Hinkle, K., Humphreys, E., Humphreys, R., Joyce, R., Matthews, L., Monnier, J., **Norris, R.**, Roettenbacker, R., Stanghellini, L., ten Brummellaar, T., van Belle, G., Vlemmings, W., Wheeler, J. C., White, R., Ziurys, L.,
BAAS, 51 p. 332, May 2019.

High Angular Resolution Astrophysics: Resolving Stellar Surface Features
Roettenbacher, R., **Norris, R.**, Baron, F., Carpenter, K., Creech-Eakman, M., Gies, D., Maccarone, T., Monnier, J., Rau, G., Ridgway, S., Schaefer, G., ten Brummelaar, T.,
BAAS, 51 p. 181, May 2019.

High Angular Resolution Astrophysics: Fundamental Stellar Parameters
van Belle, G., Baines, E., Boyajian, T., Gies, D., Jones, J., Monnier, J., **Norris, R.**, Roettenbacher, R., ten Brummelaar, T., von Braun, K., White, R.,
BAAS, 51 2019.