

ANDREA KUNDER

Curriculum Vitae

Leibniz Institut für Astrophysik
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EDUCATION

- June 2009 **Dartmouth College**; Hanover, NH
PhD in Physics & Astronomy
Advisor: Dr. Brian C. Chaboyer
Thesis: RR Lyrae stars as tracers of stellar populations in the Galactic bulge and satellite galaxies
- May 2003 **Willamette University**; Salem, OR
Bachelors of Arts in Chemistry and German; GPA: 3.73/4.00
- 2000 - 2001 **Ludwig-Maximilians Universität München**; Munich, Germany
Immersion program in language, culture, and history.
- 2002 **Columbia University's Biosphere 2**; Oracle, AZ
Universe Semester; Researched RR Lyrae stars with local telescopes.

CURRENT EMPLOYMENT

Independent Postdoctoral Fellow, Leibniz Institut für Astrophysik, Potsdam (AIP)
PI of a Deutsche Forschungsgemeinschaft (DFG) fully-funded grant to research the Galactic bulge

RESEARCH INTERESTS

The formation and evolution of Local Group galaxies and the Milky Way through detailed chemical and dynamical studies of individual stars; RR Lyrae stars and distance indicators; Globular clusters and resolved stellar populations.

HONORS/AWARDS

- 2016 "Eigene Stelle" Deutsche Forschungsgemeinschaft Science Grant (269,650 Euros)
- 2013 NOAO Science Excellence Award
- 2013 NOAO DECam Installation, Commissioning and Scientific Verification Team Award
- 2009 The Dartmouth College Arts and Sciences Graduate Student Research Presentation Award
- 2007 Honorable Mention Chambliss Award (AAS)
- Mary L. Collins Graduate Scholarship
- Blackman/Barber Scholarship (Biology, Chemistry, Physics)
- 2005 Dartmouth Science Poster Contest Winner

RESEARCH EXPERIENCE

Oct 13 - present **Leibniz Institute für Astrophysik (AIP)**; Potsdam, Germany
Post-doctoral Research Assistant

- Oct 09-Sep 2013 **Cerro Tololo Inter-American Observatory**; La Serena, Chile
Post-doctoral Research Assistant
- July-Sep 2009 **Dartmouth College**, Hanover, NH
Post-doctoral Fellow
- Jun-Aug 2008 **Indian Institute of Astrophysics**, Bangalore, India
IRES Student
- Sept 2005 **Pecs PhD School for Astrophysics of Variable Stars**, Pecs, Hungary
Participant and oral presenter
- Jun-Sept 2004 **Lawrence Livermore National Laboratory**, Livermore, CA
Research Student
- Jun-Sept 2003 **Lawrence Livermore National Laboratory**, Livermore, CA
Research Student
- Jul-Nov 2002 **Max-Planck Institute für Astrophysik**, Garching, Germany
Work Student

INVITED CONFERENCE PRESENTATIONS

- May 2016 **Astronomical Distance Determination in the Space Age**
Review talk: "Impact of RR Lyrae stars in building-up the Galactic bulge"
- June 2014 **The Evolution of Stellar Populations in Globular Clusters & Early Type Galaxies**
Review talk: "RR Lyrae stars: connection to the Milky Way and Dwarf Galaxies"

PROFESSIONAL ACTIVITIES

- 2015 - present **AIP Gender Equality Deputy**
Led Institute-wide discussions on Equity and Inequality in Astronomy and work with management to improve gender equality in the work environment
- 2013-2014 **Scientific Conference Organizer and Proceedings Editor**
"Fifty Years of Wide Field Studies in the Southern Hemisphere: Resolved Stellar Populations in the Galactic Bulge and the Magellanic Clouds", Edited by S. Points & A. Kunder: Astronomical Society of the Pacific, Vol 491, 2014
- 2012 - 2013 **DECam Support Instrument Scientist**
commission DECam (optical imager), lead documentation
- 2009 - 2013 **Mosaic2 Instrument Scientist**
guided Mosaic2 users (optical imager)
- 2010 - 2012 **TMM Substitute Leader**
facilitated discussion of current issues on Tololo and possible solutions
- 2010 - 2012 **NOAO Data Archive Evaluator**
evaluated the quality of the NOAO Mosaic2 pipeline
- 2011 **NEWFIRM Support Instrument Scientist**
guided NEWFIRM users (IR imager)
- 2011 **Reviewer**
for international journals (ApJ, ApJL, A&A, MNRAS)

TEACHING ACTIVITIES

- 2015 - 2016 **University of Potsdam, Potsdam, Germany**
Co-Teacher for “Einführung in die Astronomie” (held lectures once a week)
- Feb 2016 **Berlin Zeiss Planetarium, Berlin, Germany**
Led training evening on the formation and evolution of the Milky Way Galaxy
- Oct 2015 **Lecturer during the Wilhelm and Else-Heraeus-Service Teacher Training**
Instructed Astronomy High School Teachers on latest Milky Way Galaxy science
- 2013 - 2014 **University of Potsdam, Potsdam, Germany**
Substitute Teacher “Einführung in die Astronomie” (held lectures once per month)
- 2010 - 2013 **REU Program Mentor**
instructed an REU student in 2010, 2011 and 2013
- 2010 - 2011 **REU Program Leader**
chaperoned and organized field trips in 2010 and 2011
- 2007 **Dartmouth College WISP Mentor**
Supervised two undergraduate students; promoted the results of our completed RR Lyrae lightcurves at the July 2007 Stellar Pulsation Conference

OUTREACH POSITIONS

- 2004 - 2009 **Dartmouth Public Outreach Astronomer**
Hanover, NH
Dartmouth Public Observatory 8" Telescope; conducted Dartmouth’s public observing program, ranging from high school students to Dartmouth Trustee’s.
Dartmouth Wilder Observatory 14" Telescope; set up the Celestron C-14 XLT Telescope, SBIG CCD-8XE, SBIG Filter Wheel-CFW-8A, TheSky6.
- 2008 **Montshire Museum of Science**
Norwich, VT
Science Camp Leader; co-taught 3rd grade science class at the Morey Elementary School and attended science inquiry instruction sessions by Montshire Museum Staff; trained 2 hrs/week, taught 2 hrs/week

OBSERVATIONAL EXPERIENCE

BLANCO 4.1m:

12 nights of observing with DECam, 5 nights leader of DECam commissioning team.

30 nights of observing with Mosaic2. Extensive use of Mosaic2 wide-field imager.

10 nights of observing with NEWFIRM. Etended use of NEWFIRM wide-field imager.

AAT 4m: 8 nights of observing with AAOmega (multi-fiber spectrograph).

SOAR 4.2m: 4 nights of observing with SOI (optical imager).

MDM 1.3m: 36 nights of observing with optical CCD imager and infrared imager

MDM 2.4m: 2 nights observing with single slit moderate resolution spectrograph

SMARTS 0.9m: - 28 nights nights of observing with the Tektronix.

SMARTS 1.0m: 26 nights observing with a 4K CCD imager

WIYN 0.9m: 8 nights of observing with optical CCD imager, S2KB.

Photometry: Extensive experience in processing and reducing time-resolved CCD data obtained Mosaic2, S2KB, Templeton and Y4KCam imagers. Extensive experience in working with multi-extension images, the iraf package, mscred, and making calibration files to correct astrometric solutions, remove cross talk, and mask bad pixels. Extensive experience with standard star observations. Extended use

of Daophot II to deal with crowded field photometry.

Spectroscopy: Extensive experience processing and reducing Hydra data from the Blanco 4m Telescope, AAOmega data from the Anglo-Australian Telescope, and optical Cassegrain medium-resolution Spectra from the 2.3m Vainu Bappu Telescope; Kavalur, India.

SKILLS

Languages Fluent in German, intermediate Spanish
Programming Perl, C, Java, python
Software DAOPHOT II, IRAF, TOPCAT, LaTeX, Microsoft Office

REFEREED PUBLICATIONS

40. **Andrea Kunder** + RAVE collaboration (2016) "The Radial Velocity Experiment (RAVE): Fifth Data Release" *submitted to AJ – 2016arXiv160903210*
39. Casey, A.R., Hawkins, K., Hogg, D.W., Ness, M., Walter-Rix, H., Kordopatis, G. **Andrea Kunder** + 20 co-authors "The RAVE-on catalog of stellar atmospheric parameters and chemical abundances for chemo-dynamic studies in the Gaia era" (2016) *submitted – 2016arXiv160902914*
38. C.J. Hansen, R.M. Rich, A. Koch, S. Xu, **Andrea Kunder**, Ludwig, H.-G. (2016) "Chemical abundances in a high-velocity RR Lyrae star near the bulge" *Astronomy & Astrophysics* **590**, 39
37. B. Anguiano, D.B. De Silva, G.M., Freeman, K., G.S. Da Costa, T. Zwitter, A.C. Quillen, D.B. Zucker, J.F. Navarro, **Andrea Kunder** A. Siebert + 15 coauthors (2016): "Identification of Globular Cluster Stars in RAVE data II: Extended tidal debris around NGC 3201" *Monthly Notices of the Royal Astronomical Society* **457**, 2078
36. **Andrea Kunder**, R.M. Rich, A. Koch, J. Storm, D.M. Nataf, R. De Propris, A. Walker, G. Bono, C.I. Johnson, J. Shen, Z.-Y. Li (2016): "Before the Bar: Kinematic Detection of a Spheroidal Metal-poor Bulge Component" *The Astrophysical Journal Letters* **821**, 25
35. D.M. Nataf, O.A. Gonzalez, L. Casagrande, G. Zasowski, C. Wegg, C. Wolf, **Andrea Kunder**, J. Alonso-Garcia, D. Minniti, M. Rejkuba, R.K. Saito, E. Valenti, M. Zoccali, R. Poleski, G. Pietrzynski, J. Skowron, I. Soszynski, M.K. Szymanski, A. Udalski, K. Ulaczyk & L. Wyrzykowski (2016) "Interstellar Extinction Curve Variations Toward the Inner Milky Way: A Challenge to Observational Cosmology" *Monthly Notices of the Royal Astronomical Society* **456**, 2692
34. **Andrea Kunder**, R.M. Rich, K. Hawkins, R. Poleski, J. Storm, C.I. Johnson, J. Shen, Z.-Y. Li, M.J. Cordero, D.M. Nataf, G. Bono, A. Walker, A. Koch, R. De Propris, A. Udalski, M. Szymanski, I. Soszynski, G. Pietrzynski, K. Ulaczyk, L. Wyrzykowski, P. Pietrukowicz, J. Skowron, S. Kozłowski & P. Mroz (2015): "A high-velocity bulge RR Lyrae variable on a halo-like orbit" *The Astrophysical Journal Letters* **808**, 12
33. N. Martin, D.L. Nidever, G. Besla, K. Olsen, A. R. Walker, K. A. Vivas, R.A. Gruendl, C. Kaleida, R. Muñoz, B. Blum, A. Saha, B.C. Conn, E.F. Bell, Y.-H. Chu, M.-R. Cioni, T.J.L de Boer, C. Gallart, S. Jin, **Andrea Kunder**, S.R. Majewski, D. Martinez-Delgado, A. Monachesi, M. Monelli, L. Monteagudo, N. Noël, E. D. Olszewski, G.S. Stringfellow, R.P. van der Marel & D. Zaritsky (2015): "Hydra II: A Faint and Compact Milky Way Dwarf Galaxy Found in the Survey of the Magellanic Stellar History" *The Astrophysical Journal Letters* **804**, 1

32. B. Anguiano, D.B. Zucker, R.-D. Scholz, E. K. Grebel, G. Seabroke, **Andrea Kunder** J. Binney, P. McMillan, T. Zwitter, R.F.G. Wyse, G. Kordopatis, O. Bienaymé, J. Bland-Hawthorn, C. Boeche, K. Freeman, B.K. Gibson, G. Gilmore, U. Munari, J. Navarro, Q. Parker, W. Reid, A. Siebert, A. Siviero, M. Steinmetz & F. Watson (2015): "Identification of Globular Cluster Stars in RAVE data I: Application to Stellar Parameter Calibration" *Monthly Notices of the Royal Astronomical Society* **451**, 1229
31. J. Vanderbeke, R. De Propris, S. De Rijcke, M. Baes, M. West, J. Alonso-Garcia & **Andrea Kunder** (2015): "G2C2 - IV: A novel approach to study the radial distributions of multiple populations in Galactic globular clusters" *Monthly Notices of the Royal Astronomical Society* **451**, 275
30. Q., Yujing, J. Shen, , L. Zhao-Yu, S. Mao, M.C. Smith, R.M. Rich, **Andrea Kunder** & C. Liu (2015): "Kinematics of the X-shaped Milky Way Bulge: Expectations from a Self-consistent N-body Model" *The Astrophysical Journal* **808**, 75
29. K. Hawkins, G. Kordopatis, G. Gilmore, T. Masseron, R.F.G. Wyse, G. Ruchti, O. Bienayme, J. Bland-Hawthorn, C. Boeche, K. Freeman, K. B.K. Gibson, E. K. Grebel, A. Helmi, **Andrea Kunder**, U. Munari, J.F. Navarro, Q.A. Parker, W.A. Reid, R.D. Scholz, G. Seabroke, A. Siebert, M. Steinmetz, F. Watson, T. Zwitter (2015): "Characterizing the high-velocity stars of RAVE: the discovery of a metal-rich halo star born in the Galactic disc" *Monthly Notices of the Royal Astronomical Society* **447**, 2046
28. **Andrea Kunder**, G. Bono, T. Piffl, M. Steinmetz, E.K. Grebel, B. Anguiano, K. Freeman, G. Kordopatis, T. Zwitter, R. Scholz, B.K. Gibson, J. Bland-Hawthorn, G. Seabroke, C. Boeche, A. Siebert, R.F.G. Wyse, O. Bienayme, J. Navarro, A. Siviero, I. Minchev, Q. Parker, W. Reid, G. Gilmore, U. Munari & A. Helmi (2014): "Spectroscopic signatures of extra-tidal stars around the globular clusters NGC 6656 (M22), NGC 3201 and NGC 1851 from RAVE" *Astronomy & Astrophysics*, **572**, 30
27. C.I. Johnson, R.M. Rich, K. Chiaki, **Andrea Kunder** & A. Koch (2014): "Light, Alpha, and Fe-Peak Element Abundances in the Galactic Bulge" *The Astronomical Journal*, **148**, 67
26. J. Young-Beom, J.M. Nemeč, A.R. Walker & **Andrea Kunder** (2014): "B, V Photometry for 19,000 Stars in and around the Magellanic Cloud Globular Clusters NGC 1466, NGC 1841, NGC 2210, NGC 2257, and Reticulum" *The Astronomical Journal*, **147**, 155
25. J.L. Prieto, A. Rest, F.B Bianco, T. Matheson, N. Smith, N.R. Walborn, E.Y. Hsiao, R. Chornock, L. Paredes Alvarez, A. Campillay, C. Contreras, C. Gonzalez, D. James, G.R. Knapp, **Andrea Kunder**, S. Margheim, N. Morrell, M.M. Phillips, R.C. Smith, D.L. Welch & A. Zenteno (2014): "Light Echoes from eta Carinae's Great Eruption: Spectrophotometric Evolution and the Rapid Formation of Nitrogen-rich Molecules" *The Astrophysical Journal*, **787**, 8
24. Z.-Y. Li, J. Shen, R.M. Rich, **Andrea Kunder** & S. Mao (2014): "Are High Velocity Peaks in the Milky Way Bulge due to the Bar?" *The Astrophysical Journal*, **563**, 60
23. T. Antoja, A. Helmi, W. Dehnen, O. Bienayme, J. Bland-Hawthorn, B. Famaey, K. Freeman, B.K. Gibson, G. Gilmore, E.K. Grebel, G. Kordopatis, **Andrea Kunder**, I. Minchev, U. Manuari, J. Navarro, Q. Parker, W.A. Reid, G. Seabroke, A. Siebert, M. Steinmetz, F. Watson, R.F.G. Wyse, T. Zwitter (2014): "Constraints on the Galactic bar from the Hercules stream as traces with RAVE across the Galaxy" *Astronomy & Astrophysics*, **562**, 41

22. M. Soto, H. Zeballos, K. Kuijken, R.M. Rich, **Andrea Kunder**, T. Astraatmadja (2014): "Proper motions for HST observations in three off-axis bulge fields" *Astronomy & Astrophysics*, **562**, 41
21. **Andrea Kunder**, P.B. Stetson, S. Cassisi, A. Layden, G. Bono, M. Catelan, A.R. Walker, L. Paredes-Alvarez, J.L. Clem, N. Matsunaga, M. Salaris, J.-W. Lee & B. Chaboyer (2013): "The RR Lyrae Variables and Horizontal Branch of NGC 6656 (M22)" *The Astronomical Journal*, **146**, 119
20. S. Giridhar, A. Goswami, **Andrea Kunder** S. Muneer, S. & G. Selvakumar (2013) "Identification of metal-poor stars using the artificial neural network" *Astronomy & Astrophysics*, **556**, 121
19. L. Fraga, **Andrea Kunder** & A. Tokovinin (2013) "SOAR Adaptive Optics Observations of the Globular Cluster NGC 6496" *The Astronomical Journal*, **145**, 165
18. C. Kuehn, K. Dame, H.A. Smith, M. Catelan, Y.-B. Jeon, J. Nemec, A.R. Walker, **Andrea Kunder**, B. Pritzl, N. De Lee & J. Borissova (2013), "Variable Stars in Large Magellanic Cloud Globular Clusters. III. Reticulum" *The Astronomical Journal*, **145**, 160
17. C.I. Johnson, R.M. Rich, C. Kobayashi, **Andrea Kunder**, C.A. Pilachowski, A. Koch & R. De Propris (2013): "Metallicity Distribution Functions, Radial Velocities, and Alpha Element Abundances in Three off-axis Bulge Fields" *The Astrophysical Journal*, ApJ, **765**, 157
16. A. Di Cecco, A. Zocchi, A.L. Varri, M. Monelli, G. Bertin, G. Bono, P.B. Stetson, M. Nonino, R. Buonanno, I. Ferraro, G. Iannicola, **Andrea Kunder**, & A.R. Walker (2013): "On the Density Profile of the Globular Cluster M92" *The Astronomical Journal*, **145**, 103
15. **Andrea Kunder**, P.B. Stetson, M. Catelan, A.R. Walker & P. Amigo (2013): "Variable stars in the Globular Cluster NGC 2808" *The Astronomical Journal*, **145**, 33-48
14. **Andrea Kunder**, M. Salaris, S. Cassisi, R. De Propris, A.R. Walker, P.B. Stetson, M. Catelan & P. Amigo (2013): "The Horizontal Branch of NGC 1851: Constraints from its RR Lyrae Variables" *The Astronomical Journal*, **145**, 25-32
13. **Andrea Kunder**, A. Koch, R.M. Rich, R. De Propris, C. Howard, S. Stubbs, C.I. Johnson, J. Shen, Y. Wang, A.C. Robin, J. Kormendy, M. Soto, P. Frinchaboy, D.B. Reitzel, H. Zhao & L. Origlia (2012): "The Bulge Radial Velocity Assay (BRAVA): II. Complete Sample and Data Release" *The Astronomical Journal*, **143**, 57-71
12. J.M. Nemec, R. Smolec, J. M. Benkő, P. Moskalik, K. Kolenberg, R. Szabó, D.W. Kurtz, S. Bryson, E. Guggenberger, M. Chadid, Y.-B. Jeon, **Andrea Kunder**, A.C. Layden, K. Kinemuchi, L. L. Kiss, E. Poretti, J. Christensen-Dalsgaard, H. Kjeldsen, D. Caldwell, V. Ripepi, A. Derekas, J. Nuspl, F. Mullally, S. E. Thompson, W. J. Borucki (2011): "Fourier analysis of non-Blazhko ab-type RR Lyrae stars observed with the *Kepler* space telescope" *Monthly Notices of the Royal Astronomical Society* **417**, 1022-1053
11. F. Troisi, Bono, G., Stetson, P.B., A. Pietrinferni, A. Weiss, M. Fabrizio, I. Ferraro, A. Di Cecco, G. Iannicola, R. Buonanno, A. Calamida, A., F. Caputo, C.E. Corsi, M. Dall'Ora, **Andrea Kunder**, M. Monelli, M. Nonino, A.M. Piersimoni, L. Pulone, M. Romaniello, A.R. Walker, M. Zoccali (2011): "On a new parameter to estimate the helium content in old stellar systems" *Publications of the Astronomical Society of the Pacific* **123**, 879-891

10. A.R. Walker, **Andrea Kunder**, G. Andreuzzi, A. di Cecco, P.B. Stetson, M. Monelli, S. Cassisi, G. Bono, R. De Propris, M. Dall’Ora, J.M. Nemeč, M. Zoccali (2011): "Constraints on the Formation of the Globular Cluster IC 4499 from Multi-Wavelength Photometry" *Monthly Notices of the Royal Astronomical Society* **415**, 643-654
9. R. De Propris, R.M. Rich, **Andrea Kunder**, C.I. Johnson, A. Koch, S. Brough, C.J. Conelice, M. Gunawardhana, D. Palamara, K. Pimblet, D. Wijesinghe (2011): "Separating the Conjoined Red Clump in the Galactic Bulge: Kinematics and Abundances" *The Astrophysical Journal*, **732**, 36-41
8. **Andrea Kunder**, A.R. Walker, P.B. Stetson, J. Nemeč, G. Bono, J.M. Nemeč, R. De Propris, M. Monelli, S. Cassisi, G. Andreuzzi, M. Dall’Ora, A. Di Cecco, M. Zoccali, (2011): "Period Changes and Evolutionary Similarities between Oosterhoff I and Oosterhoff II Globular Clusters" *The Astronomical Journal*, **141**, 15-29
7. J. Shen, R.M. Rich, J. Kormendy, C.D. Howard, R. De Propris, **Andrea Kunder**, (2010): "Our Milky Way as a Pure-Disk Galaxy – A Challenge for Galaxy Formation" *The Astronomical Journal Letter*, **720**, 72-76
6. K. Kolenberg, R. Szabó, D.W. Kurtz, R.L. Gilliland, J. Christensen-Dalsgaard, H. Kjeldsen, T.M. Brown, J.M. Benkő, M. Chadid, A. Drekas, A., M. Di Criscienzo, E. Guggenberger, E., K. Kinemuchi, **Andrea Kunder**, Z. Kolláth, G. Kopacki, P. Moskalik, J.M. Nemeč, J. Nuspl, R. Silvotti, M.D. Suran, W.J. Borucki, D. Koch, J.M. Jenkins (2010): "First Kepler Results on RR Lyrae Stars" *The Astronomical Journal*, **713**, 198-203
5. **Andrea Kunder**, B. Chaboyer, & A. Layden, (2010): "The Determination of Reddening from Intrinsic VR Colors of RR Lyrae Stars" *The Astronomical Journal*, **139**, 415-424
4. **Andrea Kunder** & B. Chaboyer, (2009): "An Oosterhoff Analysis of the Galactic Bulge Field RR Lyrae stars: Implications On Their Absolute Magnitudes" *The Astronomical Journal*, **138**, 1284-1291
3. **Andrea Kunder** & B. Chaboyer (2009): "Distance to the Sagittarius Dwarf Galaxy Using MA-CHO Project RR Lyrae Stars" *The Astronomical Journal*, **137**, 4478-4486
2. **Andrea Kunder** & B. Chaboyer (2008): "Metallicity Analysis of MACHO Galactic Bulge RR0 Lyrae Stars from their Lightcurves" *The Astronomical Journal*, **136**, 2441-2452
1. **Andrea Kunder**, B. Chaboyer, P. Popowski & K.H.Cook (2008): "The Extinction Toward the Galactic Bulge from RR Lyrae Stars" *The Astronomical Journal*, **135**, 631-636

CONFERENCE PROCEEDINGS

"The RR Lyrae Instability Strip in the Split Horizontal Branch Globular Cluster NGC 6569" **Andrea Kunder**, P.B. Stetson, M. Catelan, A. Walker, S. Cassisi, C. Johnson & M.Soto, 2015, *ASPC*, **491**, 104-110

"Theoretical Modeling of the RR Lyrae Variables in NGC 1851" **Andrea Kunder**, M. Salaris, S. Cassisi, R. De Propris, A.R Walker, P.B. Stetson, M. Catelan & P. Amigo, P. 2013, *Memorie della Societa Astronomica Italiana*

"The stellar parametrization using Artificial Neural Network" S. Giridhar, A. Goswami, **Andrea Kunder**, S. Muneer & S. Kumar, *Astronomical Society of India Conference Series*, 2012, **Vol. 6**, 137

"RR Lyrae Variables in NGC 2808" **Andrea Kunder**, Peter B. Stetson, Márcio Catelan, Pia Amigo & Roberto De Propris, 2011, *The Carnegie Observatories Astrophysics Series*, **Volume 5**

"An Oosterhoff Analysis of the Galactic Bulge Field RR Lyrae stars: Implications On Their Absolute Magnitudes" **Andrea Kunder** & Brian Chaboyer, 2009, *AIP Conference Proceedings*, **Volume 1170** 188-190

"Extinction Toward the Galactic Bulge from RR Lyrae Stars" **Andrea Kunder**, P. Popowski, P. K.H. Cook, & B. Chaboyer, 2006 *ASPC*, **349**, 395-396

"The Metallicity of MACHO Galactic Bulge RR0 Lyrae stars From Fourier Coefficients of Lightcurves" **Andrea Kunder**, B. Chaboyer, P. Popowski, S. Nikolaev, & K.H. Cook, 2006, *ASPC*, **349**, 273-276