

# CURRICULUM VITAE **John A. R. Caldwell**

## **PERSONAL**

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## **EMPLOYMENT**

2004- Resident Astronomer, McDonald Observatory  
McDonald Obs TX, USA  
2002-2004 Researcher, Space Telescope Science Institute  
Baltimore MD, USA  
2001-2002 Guest Scientist, Max-Planck Institute for Astronomy  
Heidelberg, Germany  
1988-2001 Astronomer, South African Astronomical  
Observatory, Cape Town, South Africa  
1985-1987 Research Fellow, Mount Wilson & Las Campanas  
Observatories, Pasadena CA, USA  
1979-1985 Research Fellow, South African Astronomical  
Observatory, Cape Town, South Africa

## **EDUCATION**

1974-1979 Princeton University, Dept. of Astrophysical  
Sciences, Princeton NJ USA, Ph.D. 1979  
1970-1974 California Institute of Technology, Dept. of  
Astronomy, Pasadena CA USA, B.S. 1974  
language studies Afrikaans, French, German, Russian, Spanish

## **MEMBERSHIP**

American Astronomical Society  
International Astronomical Union  
International Darksky Association

## **RESEARCH FOCUS**

Gravitational microlensing  
Cepheid variable stars  
Photometry, standards & transformations

## ASTRONOMY STUDENTS

- taught General Astronomy I Lab at Towson Univ, Towson MD
- guided 10 SAAO student summer research projects
- gave summer research student lectures
- taught introductory astronomy at Union College, Cranford NJ

## SCHOOL AND PUBLIC OUTREACH

- long-term responsibility for astronomical talks and tours as well as public, legal & official astronomical inquiries
- composed monthly press releases on celestial sky and events
- organized the annual SAAO Sutherland Festival
- publicized the dark sky issue for the media and public
- achieved a major reduction of light pollution for SAAO
- on ICOP Scientific Committee to advise apropos lunar calendrics
- scientific guide for 1999 total solar eclipse tour in Turkey

## TELESCOPE OPERATIONS

- resident astronomer at McDonald Observatory 10.0m HET telescope
- specialist in night operations and astro-applications software
- observer at Las Campanas, La Silla, Palomar & Sutherland Obs
- facilitated many visiting observer programs as support astronomer
- executed many queue observing programs as resident astronomer
- was telescope manager for SAAO Sutherland 1.0m and 0.5m

## CONFERENCE ORGANIZING AND COORDINATING

- served on the local organizing committee for conferences or workshops in 2003, 2000, 1998, 1997, 1995, 1994, 1993, 1992

## PUBLICATIONS LIST: excluding abstracts, circulars, and the like

**(175)** Bennett, D.P., (+ 62 others), CALDWELL, J.A.R., (+ 18 others), “The First Circumbinary Planet Found by Microlensing: OGLE-2007-BLG-349L(AB)c,” *AJ* 152, 125 **2016**.

**(174)** Bachelet, E., (+ 20 others), CALDWELL, J.A.R., (+ 79 others), “Red Noise versus Planetary Interpretations in the Microlensing Event Ogle-2013-BLG-446,” *ApJ* 812, 136 **2015**.

**(173)** Calchi Novati, S., (+ 22 others), CALDWELL, J.A.R., (+ 61 others), “Pathway to the Galactic Distribution of Planets: Combined Spitzer and Ground-Based Microlens Parallax

Measurements of 21 Single-Lens Events,” *ApJ* 804, 20 **2015**.

**(172)** Jeong, J., (+ 39 others), CALDWELL, J.A.R., (+ 56 others), “Reanalyses of Anomalous Gravitational Microlensing Events in the OGLE-III Early Warning System Database with Combined Data,” *ApJ* 804, 38 **2015**.

**(171)** Skowron, J., (+ 66 others), CALDWELL, J.A.R., (+ 56 others), “OGLE-2011-BLG-0265Lb: A Jovian Microlensing Planet Orbiting an M Dwarf,” *ApJ* 804, 33 **2015**.

**(170)** Bennett, D.P., Batista, V., Bond, I.A., (+ 31 others), CALDWELL, J.A.R., (+ 60 others), “MOA-2011-BLG-262Lb: A Sub-Earth-Mass Moon Orbiting a Gas Giant Primary or a High Velocity Planetary System in the Galactic Bulge,” *ApJ* 785, 155 **2014**.

**(169)** Tsapras, Y., Choi, J.-Y., Street, R.A., (+ 58 others), CALDWELL, J.A.R., (+ 64 others), “A Super-Jupiter Orbiting a Late-type Star: A Refined Analysis of Microlensing Event OGLE-2012-BLG-0406,” *ApJ* 782, 48 **2014**.

**(168)** Böhm, A., Wisotzki, L., Bell, E.F.; Jahnke, K., Wolf, C., Bacon, D., Barden, M., Gray, M.E., Hoeppe, G., Joglee, S., McIntosh, D.H., Peng, C.Y., Robaina, A.R., Balogh, M., Barazza F.D., CALDWELL, J.A.R., (+ 8 others), “AGN Host Galaxies at Redshift  $z \approx 0.7$ : Peculiar or Not?,” *AAP* 549, 46 **2013**.

**(167)** Furusawa, K., (+ 100 others), CALDWELL, J.A.R., (+ 18 others), “MOA-2010-BLG-328Lb: A Sub-Neptune Orbiting very Late M Dwarf?,” *ApJ* 793, 91 **2013**.

**(166)** Gould, A., Yee, J. C., Bond, I. A., Udalski, A., Han, C., (+ 96 others), CALDWELL, J.A.R., (+ 17 others), “MOA-2010-BLG-523: “Failed Planet” = RS CVn Star,” *ApJ* 763, 141 **2013**.

**(165)** Hwang, K.-H., (+ 51 others), CALDWELL, J.A.R., (+ 29 others), “Interpretation of a Short-term Anomaly in the Gravitational Microlensing Event MOA-2012-BLG-486,” *ApJ* 778, 55 **2013**.

**(164)** Kains, N., (+ 110 others), CALDWELL, J.A.R., (+ 19 others), “A Giant Planet Beyond the Snow Line in Microlensing Event OGLE-2011-BLG-0251,” *AAP* 552 70 **2013**.

**(163)** Park, H., (+ 31 others), CALDWELL, J.A.R., (+ 28 others), “Gravitational Binary-lens Events with Prominent Effects of Lens Orbital Motion,” *ApJ* 778, 134 **2013**.

**(162)** Street, R.A., Choi, J.-Y., Tsapras, Y., Han, C., Furusawa, K., (+ 80 others), CALDWELL, J.A.R., (+ 46 others), “MOA-2010-BLG-073L: an M-dwarf with a Substellar Companion at the Planet/Brown Dwarf Boundary,” *ApJ* 763, 67 **2013**.

**(161)** Yee, J.C., (+ 71 others), CALDWELL, J.A.R., (+ 47 others), “MOA-2010-BLG-311: A Planetary Candidate below the Threshold of Reliable Detection,” *ApJ* 769, 77 **2013**.

**(160)** Bachelet, E., Shin, I.-G., Han, C., Fouqué, P., Gould, A., (+ 53 others), CALDWELL, J.A.R., (+ 88 others), “MOA 2010-BLG-477Lb: Constraining the Mass of a Microlensing Planet from Microlensing Parallax, Orbital Motion, and Detection of Blended Light,” *ApJ* 754, 73

**2012.**

**(159)** Bachelet, E., Fouqué, P., Han, C., Gould, A., Albrow, M.D., (+ 22 others), CALDWELL, J.A.R., (+ 95 others), “A Brown Dwarf Orbiting an M-dwarf: MOA 2009-BLG-411L,” *AAp* 547, 55 **2012**.

**(158)** Bozza, V., Dominik, M., Rattenbury, N.J., Jørgensen, U.G., Tsapras, Y., (+ 46 others), CALDWELL, J.A.R., (+ 54 others), “OGLE-2008-BLG-510: First Automated Real-time Detection of a Weak Microlensing Anomaly - Brown Dwarf or Stellar Binary?,” *MNRAS* 424, 902 **2012**.

**(157)** CALDWELL, J.A.R., “Moonset Lag with Arc of Light Predicts Crescent Visibility,” *MNASSA* 70, 220 [printer error cf. *MNASSA* 71, 6] **2012**.

**(156)** Cassan A., (+ 14 others), CALDWELL, J.A.R., (+ 26 others), “One or More Bound Planets per Milky Way Star from Microlensing Observations,” *Nature* 481, 167 **2012**.

**(155)** Miyake, N., Udalski, A., Sumi, T., Bennett, D.P., Dong, S., (+ 56 others), CALDWELL, J.A.R., (+ 19 others), “A Possible Binary System of a Stellar Remnant in the High-magnification Gravitational Microlensing Event OGLE-2007-BLG-514,” *ApJ* 752, 82 **2012**.

**(154)** Shin I.-G., (+ 85 others), CALDWELL, J.A.R., (+ 65 others), “Microlensing Binaries Discovered through High-magnification Channel,” *ApJ* 746, 127 **2012**.

**(153)** Shin, I.-G., Han, C., Gould, A., Udalski, A., Sumi, T., (+ 124 others), CALDWELL, J.A.R., (+ 25 others), “Microlensing Binaries with Candidate Brown Dwarf Companions,” *ApJ* 760, 116 **2012**.

**(152)** Batista, V., (+ 15 others), CALDWELL, J.A.R., (+ 118 others), “MOA-2009-BLG-387Lb: a Massive Planet Orbiting an M Dwarf,” *AAp* 529, 102 **2011**.

**(151)** Marinova, I., Jøgee, S., Heiderman, A., Barazza, F.D., Gray, M.E., Barden, M., Wolf, C., Peng, C.Y., Bacon, D., Balogh, M., Bell, E.F., Böhm, A., CALDWELL, J.A.R., (+ 12 others), “Barred Disks in Dense Environments,” *Mem Soc Astr Ital S* 18, 61 **2011**.

**(150)** Muraki, Y., (+ 77 others), CALDWELL, J.A.R., (+ 50 others), “Discovery and Mass Measurements of a Cold, 10 Earth Mass Planet and Its Host Star,” *ApJ* 741, 22 **2011**.

**(149)** Skowron, J., (+ 85 others), CALDWELL, J.A.R., (+ 16 others), “Binary Microlensing Event OGLE-2009-BLG-020 Gives Verifiable Mass, Distance, and Orbit Predictions,” *ApJ* 738, 87 **2011**.

**(148)** Fouqué, P., (+ 33 others), CALDWELL, J.A.R., (+ 77 others), “OGLE 2008-BLG-290: an Accurate Measurement of the Limb Darkening of a Galactic Bulge K Giant Spatially Resolved by Microlensing,” *AAp* 518, 51 **2010**.

**(147)** Gould, A., (+ 85 others), CALDWELL, J.A.R., (+ 61 others), “Frequency of Solar-like Systems and of Ice and Gas Giants Beyond the Snow Line from High-magnification Microlensing Events in 2005-2008,” *ApJ* 720, 1073 **2010**.

- (146) Hwang, K.-H., (+ 43 others), CALDWELL, J.A.R., (+ 35 others), “OGLE-2005-BLG-153: Microlensing Discovery and Characterization of a Very Low Mass Binary,” *ApJ* 723, 797 **2010**.
- (145) Sumi, T., (+ 56 others), CALDWELL, J.A.R., (+ 45 others), “A Cold Neptune-Mass Planet OGLE-2007-BLG-368Lb: Cold Neptunes Are Common,” *ApJ* 710, 1641 **2010**.
- (144) Barazza, F.D., Wolf, C., Gray, M.E., Joglee, S., Balogh, M., McIntosh, D.H., Bacon, D., Barden, M., Bell, E.F., Böhm, A., CALDWELL, J.A.R., (+ 13 others), “Relating Basic Properties of Bright Early-type Dwarf Galaxies to Their Location in Abell 901/902,” *AAp* 508, 665 **2009**.
- (143) Batista, V., (+ 30 others), CALDWELL, J.A.R., (+ 64 others), “Mass Measurement of a Single Unseen Star and Planetary Detection Efficiency for OGLE 2007-BLG-050,” *AAp* 508, 467 **2009**.
- (142) Gallazzi, A., Bell, E.F., Wolf, C., Gray, M.E., Papovich, C., Barden, M., Peng, C.Y., Meisenheimer, K., Heymans, C., van Kampen, E., Gilmour, R., Balogh, M., McIntosh, D.H., Bacon, D., Barazza, F.D., Böhm, A., CALDWELL, J.A.R., (+ 9 others), “Obscured Star Formation in Intermediate-Density Environments: A Spitzer Study of the Abell 901/902 Supercluster,” *ApJ* 690, 1883 **2009**.
- (141) Gould, A., (+ 68 others), CALDWELL, J.A.R., (+ 3 others), “The Extreme Microlensing Event OGLE-2007-BLG-224: Terrestrial Parallax Observation of a Thick-Disk Brown Dwarf,” *ApJL* 698, 147 **2009**.
- (140) Gray, M.E., Wolf, C., Barden, M., Peng, C.Y., Häußler, B., Bell, E.F., McIntosh, D.H., Guo, Y., CALDWELL, J.A.R., (+ 20 others), “STAGES: the Space Telescope A901/2 Galaxy Evolution Survey,” *MNRAS* 393, 1275 **2009**.
- (139) Han, C., (+ 51 others), CALDWELL, J.A.R., (+ 28 others), “Interpretation of Strong Short-Term Central Perturbations in the Light Curves of Moderate-Magnification Microlensing Events,” *ApJ* 704, 1116 **2009**.
- (138) Heiderman, A., Joglee, S., Marinova, I., van Kampen, E., Barden, M., Peng, C.Y., Heymans, C., Gray, M.E., Bell, E.F., Bacon, D., Balogh, M., Barazza, F.D., Böhm, A., CALDWELL, J.A.R., (+ 11 others), “Interacting Galaxies in the A901/902 Supercluster with STAGES,” *ApJ* 705, 1433 **2009**.
- (137) Heiderman, A., Joglee, S., Marinova, I., van Kampen, E., Barden, M., Peng, C.Y., Heymans, C., Gray, M.E., Bell, E.F., Bacon, D., Balogh, M., Barazza, F.D., Böhm, A., CALDWELL, J.A.R., (+ 11 others), “Galaxy Mergers in the A901/902 Supercluster with STAGES,” *ASP Conf Ser* 419, 257 **2009**.
- (136) Joglee, S., Miller, S.H., Penner, K., Skelton, R.E., Conselice, C.J., Somerville, R.S., Bell, E.F., Zheng, X., Rix, H.-W., Robaina, A.R., Barazza, F.D., Barden, M., Borch, A., Beckwith, S.V.W., CALDWELL, J.A.R., (+ 10 others), “History of Galaxy Interactions and Their Impact on Star Formation Over the Last 7 Gyr from GEMS,” *ApJ* 697, 1971 **2009**.

- (135) Kains, N., Cassan, A., Horne, K., Albrow, M.D., Dieters, S., Fouqué, P., Greenhill, J., Udalski, A., Zub, M., Bennett, D.P., Dominik, M., Donatowicz, J., Kubas, D., Tsapras, Y., Anguita, T., Batista, V., Beaulieu, J.-P., Brilliant, S., Bode, M., Bramich, D.M., Burgdorf, M., CALDWELL, J.A.R., (+ 23 others), “A Systematic Fitting Scheme for Caustic-crossing Microlensing Events,” *MNRAS* 395, 787 **2009**.
- (134) Marinova, I., Jogee, S., Heiderman, A., Barazza, F.D., Gray, M.E., Barden, M., Wolf, C., Peng, C.Y., Bacon, D., Balogh, M., Bell, E.F., Böhm, A., CALDWELL, J.A.R., (+ 12 others), “Barred Galaxies in the Abell 901/2 Supercluster with STAGES,” *ApJ* 698, 1639 **2009**.
- (133) Marinova, I., Jogee, S., Barazza, F.D., Heiderman, A., Gray, M.E., Barden, M., Wolf, C., Peng, C.Y., Bacon, D., Balogh, M., Bell, E.F., Böhm, A., CALDWELL, J.A.R., (+ 12 others), “The Properties of Local Barred Disks in the Field and Dense Environments: Implications for Galaxy Evolution,” *ASP Conf Ser* 419, 138 **2009**.
- (132) Robaina, A.R., Bell, E.F., Skelton, R.E., McIntosh, D.H., Somerville, R.S., Zheng, X., Rix, H.-W., Bacon, D., Balogh, M., Barazza, F.D., Barden, M., Böhm, A., CALDWELL, J.A.R., (+ 16 others), “Less Than 10 Percent of Star Formation in  $z \sim 0.6$  Massive Galaxies is Triggered by Major Interactions,” *ApJ* 704, 324 **2009**.
- (131) Wolf, C., Aragón-Salamanca, A., Balogh, M., Barden, M., Bell, E.F., Gray, M.E., Peng, C.Y., Bacon, D., Barazza, F.D., Böhm, A., CALDWELL, J.A.R., (+ 14 others), “The STAGES View of Red Spirals and Dusty Red Galaxies: Mass-Dependent Quenching of Star Formation in Cluster Infall,” *MNRAS* 393, 1302 **2009**.
- (130) Wolf, C., Aragón-Salamanca, A., Balogh, M., Barden, M., Bell, E.F., Gray, M.E., Peng, C.Y., Bacon, D., Barazza, F.D., Böhm, A., CALDWELL, J.A.R., (+ 14 others), “Optically-Passive Spirals: the Missing Link in Gradual Star Formation Suppression upon Cluster Infall,” *ASP Conf Ser* 408, 248 **2009**.
- (129) CALDWELL, J.A.R., (+ 16 others), “GEMS Survey Data and Catalog,” *ApJS* 174, 136 **2008**.
- (128) Heiderman, A., Jogee, S., Bacon, D., Balogh, M., Barden, M., Barazza, F.D., Bell, E.F., Böhm, A., CALDWELL, J.A.R., (+ 18 others), “Morphological Transformations of Galaxies in the A901/02 Supercluster from STAGES,” *New Horizons in Astronomy: Frank N. Bash Symposium: ASP Conf Ser* 393, 211 **2008**.
- (127) Heiderman, A., Jogee, S., Bacon, D., Balogh, M., Barden, M., Barazza, F.D., Bell, E.F., Böhm, A., CALDWELL, J.A.R., (+ 17 others), “Galaxy Evolution in Dense Environments: Properties of Interacting Galaxies in the Abell 901/902 Supercluster,” *Formation and Evolution of Galaxy Disks: ASP Conf Ser* 396, 269 **2008**.
- (126) Heymans, C., Gray, M.E., Peng, C.Y., van Waerbeke, L., Bell, E.F., Wolf, C., Bacon, D., Balogh, M., Barazza, F.D., Barden, M., Böhm, A., CALDWELL, J.A.R., (+ 12 others), “The Dark Matter Environment of the Abell 901/902 Supercluster: a Weak Lensing Analysis of the HST STAGES Survey,” *MNRAS* 385, 143 **2008**.

- (125) Jogee, S., Miller, S., Penner, K., Bell, E.F., Conselice, C.J., Skelton, R.E., Somerville, R.S., Rix, H.-W., Barazza, F.D., Barden, M., Borch, A., Beckwith, S.V.W., CALDWELL, J.A.R., (+ 11 others), “Frequency and Impact of Galaxy Mergers and Interactions over the Last 7 Gyr,” *Formation and Evolution of Galaxy Disks: ASP Conf Ser* 396, 337 **2008**.
- (124) Kubas, D., Cassan, A., Dominik, M., Bennett, D.P., Wambsganss, J., Brillant, S., Beaulieu, J.P., Albrow, M.D., Batista, V., Bode, M., Bramich, D.M., Burgdorf, M., CALDWELL, J.A.R., (+ 27 others), “Limits on Additional Planetary Companions to OGLE 2005-BLG-390L,” *AAP* 483, 317 **2008**.
- (123) Marinova, I., Jogee, S., Bacon, D., Balogh, M., Barden, M., Barazza, F.D., Bell, E.F., Böhm, A., CALDWELL, J.A.R., (+ 16 others), “Characterizing Barred Galaxies in the Abell 901/902 Supercluster from STAGES,” *New Horizons in Astronomy: Frank N. Bash Symposium: ASP Conf Ser* 393, 211 **2008**.
- (122) Miller, S.H., Jogee, S., Conselice, C.J., Penner, K., Bell, E.F., Zheng, X., Papovich, C., Skelton, R., Somerville, R., Rix, H.-W., Barazza, F.D., Barden, M., Borch, A., Beckwith, S.V.W., CALDWELL, J.A.R., (+ 10 others), “Exploring the Impact of Galaxy Interactions over Seven Billion Years with CAS,” *New Horizons in Astronomy: Frank N. Bash Symposium: ASP Conf Ser* 393, 235 **2008**.
- (121) Somerville, R.S., Barden, M., Rix, H.-W., Bell, E.F., Beckwith, S.V.W., Borch, A., CALDWELL, J.A.R., (+ 10 others), “An Explanation for the Observed Weak Size Evolution of Disk Galaxies,” *ApJ* 672, 776 **2008**.
- (120) Beaulieu, J.P., Albrow, M.D., Bennett, D.P., Brillant, S., CALDWELL, J.A.R., (+ 37 others), “Hunting for Frozen Super-Earths via Microlensing,” *The Messenger* 128, 33 **2007**.
- (119) Häußler, B., McIntosh, D.H., Barden, M., Bell, E.F., Rix, H.-W., Borch, A., Beckwith, S.V.W., CALDWELL, J.A.R., (+ 10 others), “GEMS: Galaxy Fitting Catalogs and Testing Parametric Galaxy Fitting Codes: GALFIT and GIM2D,” *ApJS* 172, 615 **2007**.
- (118) Häußler, B., Bell, E.F., Barden, M., McIntosh, D.H., Rix, H.-W., Borch, A., Beckwith, S.V.W., CALDWELL, J.A.R., (+ 10 others), “GEMS: The Destiny of Blue Spheroidal Galaxies,” *Galaxy Evolution across the Hubble Time: IAU Symp.* 235, 102 **2007**.
- (117) Laney, C.D., and CALDWELL, J.A.R., “The Reliability of Cepheid Reddenings Based on  $BVI_C$  Photometry,” *MNRAS* 377, 147 **2007**.
- (116) Rowe, B., Bacon, D., Heymans, C., Taylor, A., Massey, R., Barden, M., CALDWELL, J.A.R., “New Constraints on Dark Matter Substructure from Weak Gravitational Flexion,” *Cosmic Frontiers: ASP Conf Ser* 379, 338 **2007**.
- (115) Trujillo, I., Förster Schreiber N.M., Rudnick, G., Barden, M., Franx, M., Rix, H.-W., CALDWELL, J.A.R., (+ 10 others), “Size Evolution of Galaxies since  $z \sim 3$ : Combining SDSS, GEMS and FIRES,” *Island Universes: Astrophysics and Space Science Proceedings*, Springer, p.481 **2007**.

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- (112) Beaulieu, J.P., Bennett, D.P., Fouqué, P., Williams, A., Dominik, M., Jørgensen, U.G., Kubas, D., Cassan, A., Coutures, C., Greenhill, J., Hill, K., Menzies, J.W., Sackett, P.D., Albrow, M.D., Brilliant, S., CALDWELL, J.A.R., (+ 57 others), “Discovery of a Cool Planet of 5.5 Earth Masses through Gravitational Microlensing,” *Nature* 439, 437 **2006**.
- (111) Beckwith, S.V.W., Stiavelli, M., Koekemoer, A.M., CALDWELL, J.A.R., (+ 10 others), “The Hubble Ultra Deep Field,” *AJ* 132, 1729 **2006**.
- (110) Bell, E.F., Naab, T., McIntosh, D.H., Somerville, R.S., CALDWELL, J.A.R., (+ 14 others), “Dry Mergers in GEMS: the Dynamical Evolution of Massive Early-Type Galaxies,” *ApJ* 640, 241 **2006**.
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- (108) Heymans, C., Bell, E.F., Rix, H.-W., Barden, M., Borch, A., CALDWELL, J.A.R., (+ 11 others), “A Weak Lensing Estimate from GEMS of the Virial to Stellar Mass Ratio in Massive Galaxies to  $z \sim 0.8$ ,” *MNRAS* 371, 60 **2006**.
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