Marcel Agüeros

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New York, NY 10027

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fields of specialization

• properties of low-mass, main-sequence stars: empirical calibrations of age-rotation-activity relation, observational manifestations of rotation-activity relation
• identification and characterization of wide binaries: determination of initial-final mass relation for white dwarfs, tests of chemical tagging and of theories of modified gravity

education

University of Washington, Seattle, WA — 2002, 2006
M.S. & Ph.D., Astronomy

Emmanuel College, University of Cambridge, UK — 1998
M.Phil., Physics

Columbia College, Columbia University, New York, NY — 1996
B.A., Astronomy, *magna cum laude*

dissertations

Ph.D.: "Candidate Isolated Neutron Stars and Other Stellar X-ray Sources from the ROSAT All-Sky Survey (RASS) and Sloan Digital Sky Survey (SDSS)"
Advisor: Prof. Scott Anderson
Published as Agüeros, M. et al. 2006, *Candidate Isolated Neutron Stars and Other Optically Blank X-ray Fields Identified from the RASS and SDSS Surveys*, *AJ*, 131, 1740, and Agüeros, M. et al. 2009, *X-Ray Emitting Stars Identified from the RASS and the SDSS*, *ApJS*, 181, 444

M.Phil.: "The Bulk Expansion of Supernova Remnant Cassiopeia A"
Advisor: Prof. Dave Green
Published as Agüeros, M. & Green, D. 1999, *The Bulk Expansion of SNR Cassiopeia A at 151 MHz*, *MNRAS*, 305, 957

appointments

Department of Astronomy, Columbia University — 2010-present
Fulbright U.S. Scholar, Laboratoire d'Astrophysique de Bordeaux, France — 2022-2023
Associate Professor of Astronomy — 2017-present
tenured in 2019
Assistant Professor of Astronomy — 2010-2017
on parental leave 2013-2014, 2015-2016

Astrophysics Laboratory, Columbia University — 2006-2010
National Science Foundation (NSF) Astronomy & Astrophysics Post-doctoral Fellow (AAPF)

courses taught

undergraduate

Astronomy UN1836: Stars and Atoms — Spring 2016, Fall '17, '18, Spring '20, '21, '22
Introductory-level course on stellar evolution and nucleosynthesis.

Astronomy UN2001: Introduction to Astrophysics I — Fall 2021
First term of a two-term calculus-based introduction to astronomy required for majors.

Astronomy UN3101: Modern Stellar Astrophysics — Spring 2013, Fall '14, '16, '20
Survey of stellar structure and evolution for physical-sciences majors.

Astronomy UN3998: Independent Research — Spring 2019
Seminar for undergraduates engaged in research focused on developing professional skills.

Astronomy UN1403: Earth, Moon, and Planets — Fall 2010, '12, Spring '15, '17
Introductory-level course on the Solar System.

courses taught *continued*

graduate

ASTRONOMY G9004: RESEARCH SEMINAR — Spring 2011, '14, Fall '19
Seminar for beginning graduate students focused on developing professional skills.

ASTRONOMY G9002: STELLAR AGES: PROMISES AND CHALLENGES — Spring 2018
Seminar examining the importance of, and challenges involved in, measuring stellar ages.

ASTRONOMY G9002: HIGH-IMPACT PAPERS IN ASTROPHYSICS — Spring 2012
Co-taught with Zoltán Haiman
Seminar centered on discussing high-impact papers across a range of sub-fields.

ASTRONOMY G9003: THE ASTRO2010 DECADAL SURVEY — Fall 2011
Seminar examining the Astro2010 Decadal Survey.

students supervised

Ph.D. thesis advisor

- ALEJANDRO NÚÑEZ *(defended Aug. 6, 2018)* — 2013-2018
  Dissertation title: "Exploring the Stellar Age-Rotation-Activity Relation Using the α-Per and M37 Open Clusters"
  Now an NSF MPS-Ascend Post-doctoral Fellow, Columbia Astrophysics Laboratory
- STEPHANIE DOUGLAS *(defended Jun. 16, 2017)* — 2012-2017
  "Open Clusters as Laboratories for Stellar Spin Down and Magnetic Activity Decay"
  Now a faculty member, Lafayette College
- JEFF ANDREWS *(defended Sep. 16, 2015)* — 2010-2015
  "Double White Dwarfs as Probes of Single and Binary Star Evolution"
  Now a faculty member, University of Florida

Ph.D. thesis committee member

- ADAM WHEELER *(defended Jul. 15, 2022)* — 2022
  "Advances in the Modeling of Stellar Spectra, and Applications to the Galaxy and its Stars"
- STEVEN MOHAMMED *(defended Sep. 28, 2021)* — 2021
  "Probing the Ultraviolet Milky Way: The Final Galactic Puzzle Piece"
- ADRIAN LUCY *(defended Sep. 2, 2021)* — 2021
  "The Detection and Description of Accretion From Cool Evolved Stars"
- SUN YOUNG BAN *(defended Apr. 12, 2019)* — 2019
  "The Influence of Teaching Instruction and Learning Styles on Mathematics Anxiety in the Developmental Mathematics Classroom"

first-/second-year graduate project advisor

- LUCY LU (with Ruth Angus, American Museum of Natural History) — 2019-2020
- ROSE GIBSON — 2016-2017
- ALEX TEACHEY — 2016-2017
- ADRIAN PRICE-WHELAN — 2011-2012
- JENNA LEMONIAS — 2009-2010
- DUANE LEE — 2007-2008

post-baccalaureate research experience advisor

- RAYNA RAMPALLI — 2018-2020
- DAVID JAIMES — 2013-2015
- EMILY BOWSHER — 2011-2014
- EMILY NEWSOM — 2008-2009

undergraduate senior thesis advisor

- MARISA PISANO — 2014-2016
- DAVID FIERROZ — 2010-2011

post-docs supervised

- Alejandro Núñez — 2018-present
- Andrew Mann *(Hubble Post-doctoral Fellow, 2015-2018)* — 2017-2018
  Now a faculty member at the University of North Carolina, Chapel Hill
- Jason Curtis *(NSF AAPF, 2016-2019)* — 2016-present

fulbright hosted

Prof. Marwan Gebran *(Fulbright Visiting Scholar)* — Spring 2018
Department of Physics & Astronomy, Notre Dame University, Lebanon

publications

- Web of Science: h-index: 31, citations (without self-citations): 10,489
- [s] indicates that the author was a Columbia U. graduate student at the time of publication

[1] Hyades Member K2-136c: The Smallest Planet in an Open Cluster with a Precisely Measured Mass
Mayo, A., [14 authors], **Agüeros, M.**, et al., submitted to AAS journals

[2] Chemically Peculiar Stars in the Open Cluster Stock 2
Casamiquela, L., Gebran, M., **Agüeros, M.**, Bouy, H., Soubiran, C. 2022, *AJ*, 164, 255

[3] A Young, Low-Density Stellar Stream in the Milky Way Disk: Theia 456
Andrews, J., Curtis, J., Chanamé, J., **Agüeros, M.**, Schuler, S., Kounkel, M., Covey, K. 2022, *AJ*, 163, 275

[4] Activity and Rotation of Nearby Field M Dwarfs in the TESS Southern Continuous Viewing Zone
Da Silva, F., Núñez, A., **Agüeros, M.**, et al. 2022, *ApJ*, 163, 257

[5] The Strongly Irradiated Planets in Praesepe
King, G., Wheatley, P., Fawcett, V., Miller, N., Corrales, L., **Agüeros, M.** 2022, *MNRAS*, 512, 41

[6] The Factory and the Beehive. IV. A Comprehensive Study of the Rotation-X-ray Activity Relation in Praesepe and the Hyades
Núñez, A., **Agüeros, M.**, et al. 2022, *ApJ*, 931, 45

[7] HAZMAT. VIII. A Spectroscopic Analysis of the Ultraviolet Evolution of K Stars: Additional Evidence for K Dwarf Stalling in the First Gigayear
Richey-Yowell, T., [4 authors], **Agüeros, M.**, et al. 2022, *ApJ*, 929, 169

[8] Three K2 Campaigns Yield Rotation Periods for 1013 Stars in Praesepe
Rampalli, R., **Agüeros, M.**, Curtis, J., et al. 2021, *ApJ*, 921, 167

[9] A Lyman-α Transit Left Undetected: The Environment and Atmospheric Behavior of K2-25b
Rockcliffe, K., [5 authors], **Agüeros, M.**, et al. 2021, *AJ*, 162, 116

[10] Combining Astrometry and Elemental Abundances: The Case of the Candidate Pre-Gaia Halo Moving Groups G03-37, G18-39, and G21-22
Schuler, S., Andrews, J., Clanzy, V., Mourabit, M., Chanamé, J., **Agüeros, M.** 2021, *AJ*, 162, 109

[11] Stellar Rotation in the K2 Sample: Evidence for Modified Spindown
Gordon, T., [5 authors], **Agüeros, M.**, et al. 2021, *ApJ*, 913, 70

[12] When Do Stalled Stars Resume Spinning Down? Advancing Gyrochronology with Ruprecht 147
Curtis, J., **Agüeros, M.**, Matt, S., et al. 2020, *ApJ*, 904, 140

[13] Astraea: Predicting Long Rotation Periods with 27-Day Light Curves
[s]Lu, L., Angus, R., **Agüeros, M.**, et al. 2020, *AJ*, 160, 168

[14] The 100 pc White Dwarf Sample in the SDSS Footprint
Kilic, M., Bergeron, P., Kosakowski, A., Brown, W., **Agüeros, M.**, Blouin, S. 2020, *ApJ*, 898, 84

publications *continued*

[15] The ELM Survey. VIII. 98 Double White Dwarf Binaries
Brown, W., [4 authors], **Agüeros, M.**, et al. 2020, *ApJ*, 889, 49

[16] TESS Reveals that the Nearby Pisces–Eridanus Stellar Stream Is Only 125 Myr Old
Curtis, J., **Agüeros, M.**, Mamajek, E., Wright, J., Cummings, J. 2019, *AJ*, 158, 77

[17] K2 Rotation Periods for Low-Mass Hyads and a Quantitative Comparison of the Distribution of Slow Rotators in the Hyades and Praesepe
Douglas, S., Curtis, J., **Agüeros, M.**, Cargile, P., Brewer, J., Meibom, S., [s]Jansen, T. 2019, *ApJ*, 879, 100

[18] A Temporary Epoch of Stalled Spin-Down for Low-Mass Stars: Insights from NGC 6811 with Gaia and Kepler
Curtis, J., **Agüeros, M.**, Douglas, S., & Meibom, S. 2019, *ApJ*, 879, 49

[19] Pushing Automated Abundance Derivations Into The Cool Dwarf Regime: A Test Using Three G and Two K Stars in Praesepe
Gebran, M., **Agüeros, M.**, Hawkins, K., Schuler, K., Morris, B. 2019, *ApJ*, 871, 142

[20] Using APOGEE Wide Binaries to Test Chemical Tagging with Dwarf Stars
Andrews, J., Anguiano, B., Chanamé, J., **Agüeros, M.**, Lewis, H., Hayes, C., Majewski, S. 2019, *ApJ*, 871, 42

[21] Are Starspots and Plage Co-Located on Active G and K Stars?
Morris, B., Curtis, J., Douglas, S., Hawley, S., **Agüeros, M.**, Bobra, M., Agol, E. 2018, *AJ*, 156, 203

[22] Zodiacal Exoplanets in Time (ZEIT) VIII: A Two Planet System in Praesepe from K2 Campaign 16
Rizzuto, A., [4 authors], **Agüeros, M.**, et al. 2018, *AJ*, 156, 195

[23] A New Look at an Old Cluster: The Membership, Rotation, and Magnetic Activity of Low-Mass Stars in the 1.3-Gyr-Old Open Cluster NGC 752
Agüeros, M., Bowsher, E., Bochanski, P., et al. 2018, *ApJ*, 862, 33

[24] Wide Binaries in Tycho-Gaia II: Metallicities, Abundances, and Prospects for Chemical Tagging
Andrews, J., Chanamé, J., & **Agüeros, M.** 2018, *MNRAS*, 473, 5393

[25] Wide Binaries in Tycho-Gaia: Search Method and the Distribution of Orbital Separations
Andrews, J., Chanamé, J., & **Agüeros, M.** 2017, *MNRAS*, 472, 675

[26] The Factory and the Beehive III. PTFEB132.707+19.810, A Low-Mass Eclipsing Binary in Praesepe Observed by PTF and K2
Kraus, A., Douglas, S., Mann, A., **Agüeros, M.**, et al. 2017, *ApJ*, 845, 72

[27] Poking the Beehive from Space: K2 Rotation Periods for Praesepe
[s]Douglas, S., **Agüeros, M.**, Covey, K., Kraus, A. 2017, *ApJ*, 842, 83

[28] Chromospheric and Coronal Activity in the 500-Myr-old Open Cluster M37: Evidence for Coronal Stripping?
[s]Núñez, A., **Agüeros, M.**, Covey, K., López-Morales, M. 2017, *ApJ*, 834, 176

[29] The X-Ray Luminosity Function of M37 and the Evolution of Coronal Activity in Low-Mass Stars
[s]Núñez, A. & **Agüeros, M.** 2016, *ApJ*, 830, 44

publications *continued*

[30] Today a Duo, But Once a Trio? The Double White Dwarf HS 2220+2146 May Be a Post-Blue Straggler Binary
[s]Andrews, J., **Agüeros, M.**, Brown, W., et al. 2016, *ApJ*, 828, 38

[31] Massive Double White Dwarfs and the AM CVn Birthrate
Kilic, M., Brown, W., Heinke, C., Gianninas, A., Benni, P., **Agüeros, M.** 2016, *MNRAS*, 460, 4176

[32] Why Are Rapidly Rotating M Dwarfs in the Pleiades so (Infra)red? New Period Measurements Confirm Rotation-Dependent Color Offsets From the Cluster Sequence
Covey, K., **Agüeros, M.**, Law, N., et al. 2016, *ApJ*, 822, 81

[33] K2 Rotation Periods for Low-Mass Hyads and the Implications for Gyrochronology
[s]Douglas, S., **Agüeros, M.**, Covey, K., et al. 2016, *ApJ*, 822, 47

[34] Constraints on the Initial-Final Mass Relation from Wide Double White Dwarfs
[s]Andrews, J., **Agüeros, M.**, Gianninas, A., Kilic, M., Dhital, S., Anderson, S. 2015, *ApJ*, 815, 63

[35] Linking Stellar Coronal Activity and Rotation at 500 Myr: A Deep Chandra Observation of M37
[s]Núñez, A., **Agüeros, M.**, Covey, K., et al. 2015, *ApJ*, 809, 161

[36] Ultracool White Dwarfs and the Age of the Galactic Disc
Gianninas, A., [4 authors], [s]Andrews, J., Canton, P., **Agüeros, M.** 2015, *MNRAS*, 449, 3966

[37] The Mass Distribution of Companions to Low-Mass White Dwarfs
[s]Andrews, J., [s]Price-Whelan, A., & **Agüeros, M.** 2014, *ApJL*, 797, L32

[38] The Factory and the Beehive II. Activity and Rotation in Praesepe and the Hyades
[s]Douglas, S., **Agüeros, M.**, Covey, K., et al. 2014, *ApJ*, 795, 161

[39] Found: The Progenitors of AM CVn and Supernovae .Ia
Kilic, M., [4 authors], **Agüeros, M.**, et al. 2014, *MNRAS*, 438, L26
highlighted by Chandra X-ray Observatory Photo Album. See: `http://bit.ly/1cBAFzz`

[40] Statistical Searches for Microlensing Events in Large, Non-Uniformly Sampled Time-Domain Surveys: A Test Using Palomar Transient Factory Data
[s]Price-Whelan, A., **Agüeros, M.**, Fournier, A., et al. 2014, *ApJ*, 781, 35

[41] The Runaway Binary LP400−22 Is Leaving the Galaxy
Kilic, M., [4 authors], **Agüeros, M.**, et al. 2013, *MNRAS*, 434, 3582

[42] Measuring the Ages of Low-Mass Stars and Brown Dwarfs
Bochanski, J., Hawley, S., Covey, K., **Agüeros, M.**, et al. 2013, *Astronomische Nachrichten*, 334, 44

[43] Common Proper-Motion Wide White Dwarf Binaries Selected from the SDSS
[s]Andrews, J., **Agüeros, M.**, Belczynski, K., Dhital, S., Kleinman, S., West, A. 2012, *ApJ*, 757, 170

[44] The PTF Photometric Catalog 1.0
Ofek, E., [13 authors], **Agüeros, M.**, et al. 2012, *PASP*, 124, 854

[45] The ELM Survey. IV. 24 White Dwarf Merger Systems
Kilic, M., Brown, W., Allende Prieto, C., Kenyon, S., Heinke, C., **Agüeros, M.**, Kleinman, S. 2012, *ApJ*, 751, 141

[46] The PTF Photometric Calibration
Ofek, E., [13 authors], **Agüeros, M.**, et al. 2012, *PASP*, 124, 62

publications *continued*

[47] Cataclysmic Variables from the SDSS. VIII. The Final Year (2007-2008)
Szkody, P., [8 authors], **Agüeros, M.**, et al. 2011, *AJ*, 142, 181

[48] The Factory and the Beehive I. Rotation Periods for Low-Mass Stars in Praesepe
Agüeros, M., Covey, K., [s]Lemonias, J., et al. 2011, *ApJ,* 740, 110

[49] No Confirmed New Isolated Neutron Stars in the SDSS Data Release 4
Agüeros, M., Posselt, B., Anderson, S., et al. 2011, *AJ*, 141, 176

[50] PTF10nvg: An Outbursting Class I Protostar in the Pelican/North American Nebula
Covey, K., [14 authors], **Agüeros, M.**, et al. 2011, *AJ*, 141, 40

[51] The ELM Survey. II. Twelve Binary White Dwarf Merger Systems
Kilic, M., Brown, W., Allende Prieto, C., **Agüeros, M.**, Heinke, C., Kenyon, S. 2011, *ApJ*, 727, 3

[52] Accurate Masses for the Primary and Secondary in the Eclipsing White Dwarf Binary NLTT 11748
Kilic, M., Allende Prieto, C., Brown, W., **Agüeros, M.**, Kenyon, S., Camilo, F. 2010, *ApJ*, 721, L158

[53] No Neutron Star Companion to the Lowest Mass SDSS White Dwarf
Agüeros, M., Heinke, C., Camilo, F., et al. 2009, *ApJL*, 700, L123

[54] The Seventh Data Release of the SDSS
Abazajian, K., Adelman-McCarthy, J., **Agüeros, M.**, et al. 2009, *ApJS*, 182, 543

[55] A Radio Search for Pulsar Companions to SDSS Low-Mass White Dwarfs
Agüeros, M., Camilo, F., Silvestri, N., Kleinman, S., Anderson, S., Liebert, J. 2009, *ApJ*, 697, 283

[56] X-Ray Emitting Stars Identified from the RASS and the SDSS
Agüeros, M., Anderson, S., Covey, K., et al. 2009, *ApJS*, 181, 444

[57] The Runaway White Dwarf LP400−22 Has a Companion
Kilic, M., Brown, W., Allende Prieto, C., Swift, B., Kenyon, S., Liebert, J., **Agüeros, M.** 2009, *ApJ*, 695, L92

[58] The ChaMP Extended Stellar Survey (ChESS): Photometric and Spectroscopic Properties of Serendipitously Detected Stellar X-ray Sources
Covey, K., **Agüeros, M.**, Green, P., et al. 2008, *ApJS*, 178, 339
The first two authors contributed equally to this study.

[59] The Coincidence of Nuclear Star Clusters and Active Galactic Nuclei
Seth, A., **Agüeros, M.**, [s]Lee, D., [s]Basu-Zych, A. 2008, *ApJ*, 678, 116

[60] The Sixth Data Release of the SDSS
Adelman-McCarthy, J., **Agüeros, M.**, Allam, S., et al. 2008, *ApJS*, 175, 297

[61] Stellar SEDs from 0.3 to 2.5 μm: Tracing the Stellar Locus and Searching for Color Outliers in the SDSS and 2MASS
Covey, K., [5 authors], **Agüeros, M.**, et al. 2007, *AJ*, 134, 2398

[62] The Fifth Data Release of the SDSS
Adelman-McCarthy, J., **Agüeros, M.**, Allam, S., et al. 2007, *ApJS*, 172, 634

[63] Cataclysmic Variables from SDSS VI. The Sixth Year (2005)
Szkody, P., [5 authors], **Agüeros, M.**, et al. 2007, *AJ*, 134, 185

publications *continued*

[64] A Large, Uniform Sample of X-ray Emitting AGN from the RASS and SDSS Surveys: The Data Release 5 Sample
Anderson, S., [8 authors], **Agüeros, M.**, et al. 2007, *AJ*, 133, 313

[65] Panchromatic Properties of 99,000 Galaxies Detected by SDSS, and (Some by) ROSAT, GALEX, 2MASS, IRAS, GB6, FIRST, NVSS, and WENSS Surveys
Obrić, M., [5 authors], **Agüeros, M.**, et al. 2006, *MNRAS*, 370, 1677

[66] Candidate Isolated Neutron Stars and Other Optically Blank X-ray Fields Identified from the RASS and SDSS Surveys
Agüeros, M., Anderson, S., Margon, B., et al. 2006, *AJ*, 131, 1740

[67] Cataclysmic Variables from the SDSS V. The Fifth Year (2004)
Szkody, P., Henden, A., **Agüeros, M.**, et al. 2006, *AJ*, 131, 973

[68] The Fourth Data Release of the SDSS
Adelman-McCarthy, J., **Agüeros, M.**, Allam, S., et al. 2006, *ApJS*, 162, 38

[69] The Ultraviolet, Optical, and Infrared Properties of SDSS Sources Detected by GALEX
Agüeros, M., Ivezić, Ž., Covey, K., et al. 2005, *AJ*, 130, 1022

[70] Power-Recycled Resonant Sideband Extraction Interferometer with Polarization Detection
Beyersdorf, P. T., Kawamura, S., Somiya, K., Kawazoe, F., **Agüeros, M.**, et al. 2005, *Appl. Opt.*, 44, 3413

[71] Cataclysmic Variables from the SDSS IV. The Fourth Year (2003)
Szkody, P., [6 authors], **Agüeros, M.**, et al. 2005, *AJ*, 129, 2386

[72] The Third Data Release of the SDSS
Abazajian, K., Adelman-McCarthy, J., **Agüeros, M.**, et al. 2005, *AJ*, 129, 1755

[73] SDSS Imaging of Low Galactic Latitude Fields: Technical Summary and Data Release
Finkbeiner, D., [20 authors], **Agüeros, M.**, et al. 2004, *AJ*, 128, 2577

[74] Cataclysmic Variables from the SDSS III. The Third Year
Szkody, P., [5 authors], **Agüeros, M.**, et al. 2004, *AJ*, 128, 1882

[75] The Second Data Release of the SDSS
Abazajian, K., Adelman-McCarthy, J., **Agüeros, M.**, et al. 2004, *AJ*, 128, 502

[76] A Large, Uniform Sample of X-ray Emitting AGN: Selection Approach and an Initial Catalog from the RASS and SDSS Surveys
Anderson, S., [3 authors], **Agüeros, M.**, et al. 2003, *AJ*, 126, 2209

[77] The First Data Release of the SDSS
Abazajian, K., Adelman-McCarthy, J., **Agüeros, M.**, et al. 2003, *AJ*, 126, 2081

[78] An X-ray Image of the Composite SNR G16.7+0.1
Helfand, D., **Agüeros, M.**, & Gotthelf, E. 2003, *ApJ*, 592, 941

[79] Cataclysmic Variables from the SDSS I. The First Results
Szkody, P., Anderson, S., **Agüeros, M.**, et al. 2002, *AJ*, 123, 430

[80] The Bulk Expansion of SNR Cassiopeia A at 151 MHz
Agüeros, M. & Green, D. 1999, *MNRAS*, 305, 957

research notes of the AAS

[1] Re-crowning The Queen: Membership, Age and Rotation Periods for the Open Cluster Coma Berenices
Singh, K., Rothstein, P., Curtis, J., Núñez, A., **Agüeros, M.** 2021, *RNAAS*, 5, 84

[2] Leave No Low-Mass Star Behind: Results from Extended Surveys of Hα Emission from Stars in Praesepe and the Hyades
Chu, S., DeLaurentiis, S., Núñez, A., **Agüeros, M.**, Curtis, J., Douglas, S., Rampalli, R. 2020, *RNAAS*, 5, 50

[3] A Serendipitous Pulsar Discovery in a Search for a Companion to a Low-Mass White Dwarf
Andrews, J., **Agüeros, M.**, Camilo, F., Kilic, M., Gianninas, A., Brown, W., Heinke, C. 2018, *RNAAS*, 2, 60

[4] Validating TGAS Wide Binaries with Gaia DR2 Radial Velocities and Parallaxes
Andrews, J., Chanamé, J., & **Agüeros, M.** 2018, *RNAAS*, 2, 29

conference proceedings

[1] The Rotation-Activity Relation in 500-Myr-old Stars
Núñez, A., **Agüeros, M.**, Covey, K., López-Morales, M. 2017, *Revista Mexicana de Astronomía y Astrofísica (Serie de Conferencias) (RMxAC)*, 49, 91

[2] Setting Stellar Chronometers: The PTF(+) Open Cluster Survey
Agüeros, M. 2017, *RMxAC*, 49, 80

[3] Testing the Rotation-Activity Relation With the Hyades And Praesepe
Douglas, S., **Agüeros, M.**, et al. 2016, *19th Cambridge Workshop on Cool Stars, Stellar Systems, and the Sun*, id.106

[4] Constraining the Initial-Final Mass Relation with Wide Double White Dwarfs
Andrews, J., **Agüeros, M.**, Gianninas, A., Kilic, M., Dhital, S., Anderson, S. 2015, *19th European Workshop on White Dwarfs*, ASP Conference Series, 493, 301

[5] Rotation and Activity in the Praesepe Open Cluster
Lemonias, J., **Agüeros, M.** et al. 2011, *16th Cambridge Workshop on Cool Stars, Stellar Systems, and the Sun*, ASP Conference Series, 448, 1165

[6] The Age-Rotation-Activity Relation: From Myrs to Gyrs
Covey, K., **Agüeros, M.**, et al. 2011, *16th Cambridge Workshop on Cool Stars, Stellar Systems, and the Sun*, ASP Conference Series, 448, 269

[7] Extended Chandra Multi-wavelength Project (ChaMPx)
Kim, D.-W., [6 authors], **Agüeros, M.** et al. 2008, *The X-ray Universe 2008*, id.240

[8] The ChaMP Extended Stellar Survey (ChESS)
Agüeros, M., Covey, K., Green, P., et al. 2008, *The X-ray Universe 2008*, id.14

[9] RASS Detected Narrow-Line Seyfert 1 Galaxies in the SDSS
Gallo, L., Boller, T., Voges, W., Anderson, S., **Agüeros, M.**, vanden Berk, D. 2004, *AGN Physics with the Sloan Digital Sky Survey*, ASP Conference Series, 311, 273

[10] Finding CVs in the Sloan Digital Sky Survey: First Results
Szkody, P., Anderson, S., **Agüeros, M.**, Covarrubias, R. 2002, *The Physics of Cataclysmic Variables and Related Objects*, ASP Conference Proceedings, 261, 297

[11] Detection of X-ray Emission from SNR G16.7+0.1
Agüeros, M., Helfand, D., Gotthelf, E. 2002, *Neutron Stars in Supernova Remnants*, ASP Conference Proceedings, 271, 241

selected research grants
>$3.0M as PI since 2009

A Deep Dive Into the Activity-Rotation Relation in Three Key Open Clusters: The Hyades, Pleiades, and Praesepe — 2021
NASA: Astrophysics Data Analysis Program
Award Period: 05/07/2021-05/06/2024
Award: $420,475

Testing Models for Magnetic Supersaturation With the Fastest Rotators in the Hyades — 2020
Smithsonian Astrophysical Observatory: *Chandra* Cycle 22 General Observer Program
Award period: 01/11/2021-01/10/2023
Award: $118,490

Time for Better: Precision Stellar Clocks Built with Kepler, TESS, and Gaia — 2020
NSF: Astronomy & Astrophysics Research Grant
Award period: 09/01/2020-08/31/2023
Award: $522,662

No Longer on the Margins: Completing the Rotational Census of Low-Mass Hyads with TESS — 2018
NASA: *Transiting Exoplanet Survey Satellite (TESS)* Cycle 1 Guest Investigator Program
Award period: 03/01/2019-02/29/2020
Award: $50,000

A Decade On, Which Bees Are Still Buzzing? Monitoring Starspot Evolution In Praesepe From PTF To K2 — 2018
NASA: *K2* Cycle 6 Guest Observer Program
Award period: 01/01/2019-12/31/2019
Award: $50,000

A UV Spectroscopic Snapshot Survey of Low-Mass Stars in the Hyades — 2017
Space Telescope Science Institute (STScI): *Hubble Space Telescope (HST)* Cycle 25 Snapshot Program
Award period: 01/01/2019-12/31/2021
Award: $160,361

A UV Spectroscopic Survey of Periodic M Dwarfs in the Hyades — 2017
STScI: *HST* Cycle 25 Guest Observer Program
Award period: 08/01/2018-07/31/2021
Award: $171,161

Why We Should Keep Poking the Beehive: Simultaneous K2 and Spectroscopic Observations of Praesepe — 2017
NASA: *K2* Cycle 5 Guest Observer Program
Award period: 01/22/2018-01/21/2019
Award: $50,000

How the Other Half Lives: Completing the K2 Census of Low-Mass Hyads — 2016
NASA: *K2* Cycle 4 Guest Observer Program
Award period: 02/02/2017-09/30/2018
Award: $40,000

A Snapshot Survey of the Hyades: Testing Models for Magnetic Saturation — 2016
NASA: *XMM-Newton* AO-15 Guest Observer Program
Award period: 01/03/2017-01/02/2019
Award: $98,262

research grants *continued*

The Massive Companions of Low-Mass White Dwarfs 2016
SAO: *Chandra* Cycle 17 General Observer Program
Award period: 01/29/2016-01/28/2018
Award: $34,823

HyPra: Anchoring the Rotation-Activity Relation at 600 Myr 2015
NSF: Astronomy & Astrophysics Research Grant
Award period: 09/01/2015-08/31/2017
Award: $206,066

CAREER: Fixing Stellar Chronometers with Open Clusters 2013
NSF: Faculty Early Career Development (CAREER) program
Award period: 06/01/2013-08/31/2019
Award: $922,185

Searching for Millisecond Pulsars in Extremely Low-Mass White Dwarf Binaries 2012
National Radio Astronomy Observatory Student Observing Support grant (for Jeff Andrews)
Award period: 02/01/2012-01/31/2013
Award: $35,000

Deep Imaging of M37, a Better Hyades 2011
SAO: *Chandra* Cycle 13 General Observer Program
Award period: 11/16/2011-11/15/2015
Award: $115,391

Searching for Millisecond Pulsars in Extremely Low-Mass White Dwarf Binaries 2010
SAO: *Chandra* Cycle 12 General Observer Program
Award period: 03/03/2011-03/02/2014
Award: $23,182

The Coolest X-ray Emitting WDs? 2009
XMM-Newton AO-8 Guest Observer Program
Award period: 07/17/2009-07/16/2011
Award: $56,900

other grants *>$1.4M as PI since 2009*

AAS Chrétien International Research Grant 2021
Award: $15,550

Provost's Grants Program for Mid-Career Faculty Who Contribute to the Diversity Goals of the University 2021
Award: $36,850

Lenfest Junior Faculty Development Grants 2015, 2017, 2018
Total award: $10,210

departmental initiatives

CUPUC: A Partnership with Astronomers at the Pontificia Universidad Católica de Chile 2016
Columbia U. President's Global Innovation Fund
Award period: 06/01/2016-05/31/2018
Award: $50,000

other grants *continued*

The Large Synoptic Survey Telescope (LSST) and the Future of Astronomy 2013
Columbia U. Provost's Grants Program For Junior Faculty Who Contribute to the Diversity Goals of the University
Award period: 06/01/2013-05/31/2014
Award: $25,000

Columbia's Participation in the Cornell Space Grant Consortium 2012-present
NASA New York Space Grant Consortium
Total award period: 05/01/2012-04/30/2019
Total award: $208,820

Bridge to the Ph.D. Program in the Natural Sciences

A Bridge to the Future 2016
NSF: unsolicited proposal
Award period: 09/01/2015-08/31/2019
Award: $403,210

A Research-Intensive Preparation for the Transition to Graduate School 2010
NSF: unsolicited proposal
Award period: 10/01/2010-09/30/2013
Award: $692,321

A Bridge to the Astronomy Ph.D. at Columbia University 2008, 2009
New York NASA Space Grant Consortium
Total award period: 05/01/2008-04/30/2010
Total award: $20,000

honors, prizes, & fellowships

Fellow of the American Astronomical Society (AAS) 2023
Fulbright Scholar, U.S. Department of State 2022
Fulbright Scholar, U.S. Department of State *(declined)* 2021
AAS Chrétien International Research Grant 2021
Columbia University Provost Leadership Fellow 2021
Columbia University Faculty Service Award 2021
Columbia University Presidential Award for Outstanding Teaching by Faculty 2019
Honorary Padrino, El Museo del Barrio's 42nd Annual Three Kings Day Parade 2019
Kavli Frontiers of Sciences Fellow 2016
NSF Presidential Early Career Award for Scientists and Engineers (PECASE) 2016
Lenfest Distinguished Columbia University Faculty Award 2016
NSF CAREER award 2013
Selected participant, Summer Leadership Institute, Society for the Advancement of Chicanos and Native Americans in Science (SACNAS) 2011
Certificate of Excellence in Recognition of Distinguished Personal Initiative on Diversity in Astronomy, National Society of Black Physicists (NSBP) 2008
NSF AAPF 2006-2010
Trailblazer Award, Latino Alumni Association of Columbia University 2006
NASA Harriett G. Jenkins Pre-doctoral Fellow, U. of Washington 2003-2006
NSF Graduate Teaching in K-12 Education (GK-12) Fellow, U. of Washington 2002-2003
NSF East Asian & Pacific Summer Institute, National Astronomical Observatory of Japan 2002
Columbia College Euretta J. Kellett Fellow, U. of Cambridge 1996-1998
Phi Beta Kappa, Columbia U. 1996
Hispanic Scholarship Fund, Columbia U. 1994-1996

colloquia & talks

[1] Invited seminar, European Space Astronomy Centre, Villafranca del Castillo, Spain, Mar. 2, 2023
[2] Invited seminar, Institute of Astronomy, Katholieke Universiteit Leuven, Belgium, Feb. 3, 2023
[3] Virtual seminar, Lamat Program, University of California, Santa Cruz, Aug. 5, 2021
[4] Virtual seminar, Latino Initiative, Smithsonian Astrophysical Observatory, May 18, 2021
[5] Virtual colloquium, NASA Goddard Space Flight Center, May 11, 2021
[6] Virtual invited talk, NASA Astrophysics Advisory Committee meeting, Oct. 21, 2020
[7] Colloquium, Institute for Astronomy, University of Hawaii, Oct. 30, 2019
[8] Invited & contributed talks, Inclusive Astronomy 2, Baltimore, MD, Oct. 15, 2019
[9] Colloquium, Pontificia Universidad Católica, Santiago, Chile, May 28, 2019
[10] Colloquium, Dartmouth College, May 3, 2019
[11] Colloquium, University of Utah, Apr. 18, 2019
[12] Joint Colloquium, University of Virginia/National Radio Astronomy Observatory, Nov. 29, 2018
[13] Colloquium, Indiana University, Bloomington, Nov. 13, 2018
[14] Colloquium, University of California, Santa Cruz, Nov. 7, 2018
[15] Invited talk, SACNAS National Conference, San Antonio, TX, Oct. 12, 2018
[16] Invited seminar, Observatoire astronomique de Strasbourg, Strasbourg, France, Oct. 5, 2018
[17] Contributed plenary talk, $20^{\rm th}$ Cambridge Workshop on Cool Stars, Boston, MA, Aug. 1, 2018
[18] Invited seminar, Kazan Federal University, Kazan, Russia, Jun. 15, 2018
[19] Colloquium, University of North Carolina, Chapel Hill, Apr. 23, 2018
[20] Colloquium, University of Michigan, Apr. 12, 2018
[21] Invited seminar, University of Exeter, Exeter, UK, Mar. 14, 2018
[22] Invited seminar, Rider University, Feb. 23, 2018
[23] Contributed talk, "Dwarf Stars and Clusters with K2" workshop, Boston, MA, Jan. 16, 2018
[24] Invited seminar, Vanderbilt University, Dec. 8, 2017
[25] Joint Astrophysics Colloquium, McGill University, Montreal, Canada, Nov. 28, 2017
[26] Five College Astronomy Department Colloquium, University of Massachusetts, Sep. 28, 2017
[27] Contributed talk, "ages^2: Taking Stellar Ages to the Next Power" meeting, Elba, Italy, Sep. 19, 2017
[28] Colloquium, Pontificia Universidad Católica, Santiago, Chile, May 23, 2017
[29] Contributed talk, Latin American XV Regional IAU Meeting, Cartagena, Colombia, Oct. 6, 2016
[30] Colloquium, University of Texas, Aug. 30, 2016
[31] Colloquium, Pennsylvania State University, Apr. 20, 2016
[32] Invited seminar, Imperial College London, London, UK, Oct. 7, 2015
[33] Invited talk, Inclusive Astronomy, Nashville, TN, Jun. 17, 2015 [34] Invited talk, "Celebrating 10 Years of Diversity in Astronomy With Pre-MAP" special session, AAS meeting 225, Seattle, WA, Jan. 6, 2015
[35] Colloquium, University of Rochester, Mar. 31, 2014
[36] Contributed talk, "What Asteroseismology Has to Offer to Astrophysics," International Francqui Symposium (in honor of Conny Aerts), Brussels, Belgium, Dec. 4, 2013
[37] Invited talk, Tri-State Astronomy Conference, CUNY Graduate Center, NY, NY, Sep. 27, 2013
[38] Invited talk, American Physical Society's Second Graduate Education in Physics Conference, College Park, MD, Feb. 1, 2013
[39] Invited talk, "Research Based Initiatives for Broadening the Participation of Women and Minorities in Astronomy" special session, AAS meeting 221, Long Beach, CA, Jan. 7, 2013
[40] Invited talk, SACNAS National Conference, Seattle, WA, Oct. 12, 2012
[41] Invited talk, "Determining the Ages of Low-Mass Stars and Brown Dwarfs" splinter session, $17^{\rm th}$ Cambridge Workshop on Cool Stars, Barcelona, Spain, Jun. 25, 2012
[42] Colloquium, Yale University, Apr. 5, 2012
[43] Colloquium, University of Toronto, Mar. 23, 2012
[44] Invited talk, SACNAS National Conference, San José, CA, Oct. 28, 2011
[45] Colloquium, Pennsylvania State University, Sep. 28, 2011
[46] Invited talk, NSBP/National Society of Hispanic Physicists (NSHP) Joint Annual Conference, Austin, TX, Sep. 24, 2011
[47] Invited talk, PTF Collaboration Meeting, Santa Barbara, CA, May 27, 2011
[48] Steward Observatory/National Optical Astronomy Observatory Joint Colloquium, Apr. 28, 2011

colloquia & talks *continued*

[49] Invited seminar, Rutgers University, Apr. 22, 2011
[50] Cape Town Astronomy & Cosmology Colloquium, South African Astronomical Observatory, Cape Town, South Africa, Apr. 19, 2011
[51] Contributed talk, 2nd Middle-East and Africa Regional IAU Meeting, Cape Town, South Africa, Apr. 14, 2011
[52] Invited seminar, Center for Interdisciplinary Exploration and Research in Astronomy, Northwestern University, Apr. 5, 2011
[53] Colloquium, University of Wisconsin-Milwaukee, Apr. 1, 2011
[54] Colloquium, Columbia University, May 27, 2009
[55] Invited seminar, College of Staten Island, May 6, 2009
[56] Contributed talk, NSF Astronomy & Astrophysics Postdoctoral Fellows Symposium, Long Beach, CA, Jan. 4, 2009
[57] Invited talk, SACNAS National Conference, Salt Lake City, UT, Oct. 10, 2008
[58] Contributed talk, NSF Astronomy & Astrophysics Postdoctoral Fellows Symposium, Austin, TX, Jan. 6, 2008
[59] Contributed talk, NSF Astronomy & Astrophysics Postdoctoral Fellows Symposium, Seattle, WA, Jan. 6, 2007
[60] Colloquium, Kyoto University, Kyoto, Japan, Dec. 5, 2006
[61] Colloquium, American Museum of Natural History, Nov. 6, 2006
[62] Invited talk, SACNAS National Conference, Tampa, FL, Oct. 27, 2006
[63] Colloquium, Vanderbilt University, Feb. 2, 2006
[64] Invited talk, NSBP/NSHP Joint Annual Conference, Orlando, FL, Feb. 19, 2005
[65] Invited talk, SACNAS National Conference, Austin, TX, Oct. 23, 2004
[66] Invited talk, NSBP/NSHP Joint Annual Conference, Washington, DC, Feb. 20, 2004

meetings organized

"What's Up With Spin Down?" 2022
Co-organizer of a splinter session at 21st Cool Stars meeting, Toulouse, France, July 4. See `https://bit.ly/3tsfqkh`

Stellar Magnetism Mini-Meeting 2017
Co-organizer of a week-long workshop in Bellingham, WA, Aug. 14-18. Eleven attendees. See `https://bit.ly/2jTIIVz`

"Star Clusters From Space, From the Ground, and Over Time" 2016
Co-organizer of a two-day splinter session at 19th Cool Stars meeting, Uppsala, Sweden, June 6-7. Twenty speakers. See `https://bit.ly/2IbUnxv`

Cool Stars March Mini-Meeting 2016
Co-organizer of a three-day workshop at Columbia U., Mar. 16-18. Fifteen attendees. See `https://bit.ly/2rHtwyD`

CUPUC Workshop II 2015
Co-organizer of a three-day joint Columbia U. –Pontificia Universidad Católica (CUPUC) workshop at Columbia U., Dec 14-16. Hosted seven PUC faculty members. See `https://bit.ly/2rEg538`

CUPUC Workshop I 2015
Co-organizer of a three-day CUPUC workshop hosted by the Instituto de Astrofísica, Santiago, Chile, May 27-29. Five Columbia U. faculty and six graduate students attended. See `https://bit.ly/2Idvp0K`

Cool Stars Columbia-Cornell Workshop 2010
Co-organizer of a week-long workshop in Ithaca, NY, Aug. 9-13. Fifteen attendees. Culminated in one-day symposium; see `https://bit.ly/2jTIYUH`

meetings organized *continued*

"Planets, Stars, Galaxies, Engineers: Astronomy Instrumentation and You" 2009
Co-organizer of National Optical Astronomy Observatory workshop at annual meeting of the Society of Hispanic Professional Engineers, Washington, DC, Oct. 29.
See `https://bit.ly/2If6Cpl`

Annual Research Symposium, Bridge to the Ph.D. Program 2009-present
Organize symposium at Columbia to highlight research accomplishments of Program participants and alumni. Usually features a dozen speakers and 50-80 attendees.

Astronomy Sessions, NSBP/NSHP Joint Meeting 2009
Co-organizer of four sessions at annual NSBP/NSHP meeting, Nashville, TN, Feb. 12-14.
Nineteen speakers, 30-50 attendees. See `https://bit.ly/2GdMBgS`

Astronomy Sessions, NSBP/NSHP Joint Meeting 2008
Co-organizer of three sessions at annual NSBP/NSHP meeting, Washington, DC, Feb. 22-23.
Fourteen speakers, 30-50 attendees. See `https://bit.ly/2jVLzOO`

grants for meetings

We Are Family: The Bridge Program's Tenth Anniversary Symposium 2018
NSF: unsolicited proposal
Award period: 05/01/2018-04/30/2019
Award: $30,000

Teaming Up to Prepare for the Next Decade in Time-Domain Astrophysics: A Joint Workshop with the Pontificia Universidad Católica de Chile 2014
Columbia U. President's Global Innovation Fund
Award period: 06/01/2014-05/31/2015
Award: $25,000

Enhancing the Role of Physics and of the NSHP at the SACNAS National Conference 2012
NSF: unsolicited proposal (PI: J. Draayer, president, Southeastern Universities Research Association (SURA); served as co-PI)
Award period: 07/15/2012-06/30/2015
Award: $75,000

The 2011 Joint Annual Conference of the NSBP/NSHP 2011
NSF: unsolicited proposal (PI: J. Draayer, SURA)
Award period: 06/15/2011-05/31/2012
Award: $299,380

service to university

Selection Committee, Presidential Awards for Outstanding Teaching by Faculty 2019-2022
Identify candidates for Presidential Awards for Outstanding Teaching, established in 1996 to honor Columbia U.'s best instructors.

NASA New York Space Grant Consortium Representative, Department of Astronomy 2010-present
Serve as liaison with state Space Grant office. Responsible for grant-writing (≈$270,000 since 2010 for department activities, including support for outreach).

Faculty Outreach Director, Department of Astronomy 2010-present
With assistance of half-time outreach administrator, oversee departmental outreach efforts, which reach ≈3000 people a year.
See `http://outreach.astro.columbia.edu`

service to university *continued*

FOUNDING DIRECTOR, BRIDGE TO PH.D. PROGRAM IN STEM — 2008-present
Lead Columbia program that prepares underrepresented post-baccalaureates for transition into Ph.D. programs.
See `http://bitly.com/cubridge`

REVIEWER, OFFICE OF GLOBAL PROGRAMS & FELLOWSHIPS
Evaluated applications for Kellett Fellowship and Goldwater Scholarship.

service to discipline

MEMBER, NASA ASTROPHYSICS SENIOR REVIEW SUBCOMMITTEE — 2022
Participated in triennial evaluation of NASA astrophysics missions.
See `https://go.nasa.gov/3mCHDSs`

MEMBER, NASA PANEL REVIEWING HUBBLE FELLOWSHIP PROGRAM — 2021
Tasked by NASA with conducting first review of its flagship post-doctoral fellowship program. See `https://go.nasa.gov/3HELBC9`

MEMBER, EXPERT WORKING GROUP ON PANEL REFORM, RESEARCH FOUNDATION – FLANDERS (BELGIUM) — 2020-2021
Charged by Flemish equivalent of the NSF with how best to structure review panels for thousands of research applications received each year.

MEMBER, ALLIANCE MANAGEMENT TEAM, INCLUSIVE GRADUATE EDUCATION NETWORK (IGEN) — 2019-present
Represent the AAS on the management team for the NSF INCLUDES-funded IGEN project, designed to increase the number of physical science doctoral degrees earned by underrepresented students. See `https://igenetwork.org/`

MEMBER, SCIENCE ADVISORY COUNCIL, STAMFORD MUSEUM & NATURE CENTER, STAMFORD, CT — 2019-present
Advise on development of science programming for museum.
See `https://www.stamfordmuseum.org/`

CHAIR, EXPERT PANEL: SCIENCES OF THE EARTH AND SPACE, RESEARCH FOUNDATION – FLANDERS (BELGIUM) — 2019-2020
Chaired panel evaluating proposals in astrophysics and Earth sciences.

MEMBER, AAS TASK FORCE ON DIVERSITY AND INCLUSION IN ASTRONOMY GRADUATE EDUCATION — 2018-2019
Co-authored report commissioned by the AAS. Co-chaired working group on admissions and recruitment. See `https://bit.ly/2ZxfIIa`

TRUSTEE, AAS — 2017-2021
Elected member of the AAS's board of trustees, its governing body. Member of the AAS's finance committee and chair of its audit committee.

MEMBER, LSST INTERNATIONAL CONTRIBUTORS COMMITTEE — 2017-2019
Elected member of the LSST Corporation's committee responsible for managing international partnerships.

MEMBER, SELECTION COMMITTEE, GOLDEN GOOSE AWARD — 2016-present
Select recipients of the American Association for the Advancement of Science's annual award for quirky and impactful science.

MEMBER, SPACE STUDIES BOARD COMMITTEE ASSESSING THE NSF'S 2015 GEOSPACE PORTFOLIO REVIEW — 2016
Evaluated NSF's review of its Geospace portfolio against Decadal Survey priorities.

MEMBER, EXPERT PANEL: SCIENCES OF THE EARTH AND SPACE, RESEARCH FOUNDATION – FLANDERS (BELGIUM) — 2015-2018
Served on panel evaluating in astrophysics and Earth sciences.

service to discipline *continued*

Member, Community Science Advisory Committee, Zwicky Transient Facility (ZTF) Advised the ZTF PI Shri Kulkarni on matters of importance to the US community.	2014-2020
Member, NSF Division of Astronomical Sciences Portfolio Review Committee Produced guidelines for implementing Astro2010 Decadal Survey recommendations for ground-based astronomy in light of budgetary realities.	2011-2012

Proposal Reviewer
Chilean National Commission for Science and Technology and National Agency of Research and Development; NSF GK-12, AAPF, and Astronomy & Astrophysics Research Grants programs; NSF facilities management competition; NASA Postdoctoral Program; Goldwater Scholarship; MIT, Oxford, and Columbia University Presses; Elsevier; Sloan Foundation.

Scientific Referee
ApJ, *Astronomy & Astrophysics*, *MNRAS*, and *PASP*.