

# MARCEL AGÜEROS

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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

M.Phil.: “The Bulk Expansion of Supernova Remnant Cassiopeia A”  
Advisor: Prof. Dave Green

## 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 UN2001: INTRODUCTION TO ASTROPHYSICS I Fall 2021, '23  
First term of a two-term calculus-based sequence required for majors.

ASTRONOMY UN1836: STARS AND ATOMS Spring 2016, Fall '17, '18, Spring '20, '21, '22  
Introductory-level course on stellar evolution and nucleosynthesis.

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 focused on developing professional skills.

ASTRONOMY UN1403: EARTH, MOON, AND PLANETS Fall 2010, '12, Spring '15, '17  
Introductory-level course on the Solar System.

<b>courses taught</b> <i>continued</i>	<b>graduate</b>	
	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
	<i>Co-taught with Zoltán Haiman</i>	
	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.	
<b>students supervised</b>	<b>Ph.D. thesis advisor</b>	
	• ALEJANDRO NÚÑEZ ( <i>defended Aug. 6, 2018</i> )	2013-2018
	Dissertation title: "Exploring the Stellar Age-Rotation-Activity Relation Using the $\alpha$ -Per and M37 Open Clusters"	
	<i>Now an NSF MPS-Ascend Post-doctoral Fellow, Columbia Astrophysics Laboratory</i>	
	• STEPHANIE DOUGLAS ( <i>defended Jun. 16, 2017</i> )	2012-2017
	"Open Clusters as Laboratories for Stellar Spin Down and Magnetic Activity Decay"	
	<i>Now a faculty member, Lafayette College</i>	
	• JEFF ANDREWS ( <i>defended Sep. 16, 2015</i> )	2010-2015
	"Double White Dwarfs as Probes of Single and Binary Star Evolution"	
	<i>Now a faculty member, University of Florida</i>	
	<b>Ph.D. thesis committee member</b>	
	• ADAM WHEELER ( <i>defended Jul. 15, 2022</i> )	2022
	"Advances in the Modeling of Stellar Spectra, and Applications to the Galaxy and its Stars"	
	• STEVEN MOHAMMED ( <i>defended Sep. 28, 2021</i> )	2021
	"Probing the Ultraviolet Milky Way: The Final Galactic Puzzle Piece"	
	• ADRIAN LUCY ( <i>defended Sep. 2, 2021</i> )	2021
	"The Detection and Description of Accretion From Cool Evolved Stars"	
	• SUN YOUNG BAN ( <i>defended Apr. 12, 2019</i> )	2019
	"The Influence of Teaching Instruction and Learning Styles on Mathematics Anxiety in the Developmental Mathematics Classroom"	
	<b>first-/second-year graduate project advisor</b>	
	• 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
	<b>post-baccalaureate research experience advisor</b>	
	• RAYNA RAMPALLI	2018-2020
	• DAVID JAIMES	2013-2015
	• EMILY BOWSHER	2011-2014
	• EMILY NEWSOM	2008-2009
	<b>undergraduate senior thesis advisor</b>	
	• 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 AAPP, 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 (2023): *h*-index: 40, citations: 12,490
  - <sup>s</sup> indicates that the author was a Columbia U. student at the time of publication
- [1] THE FACTORY AND THE BEEHIVE. V. CHROMOSPHERIC AND CORONAL ACTIVITY AND ITS DEPENDENCE ON ROTATION IN PRAESEPE AND THE HYADES  
Núñez, A., **Agüeros, M.**, Curtis, J., et al. submitted to *Journals of the American Astronomical Society (AAS)*
- [2] GETTING STARTED WITH CULTURE CHANGE IN STEM: LESSONS IN RETOOLING  
**Agüeros, M.**, Ambroso, E., Bordon, B., Desir, S., Kostyu, E., McDaniels, M., Miller, C., et al., submitted to *Journal of Diversity in Higher Education*  
*Authors listed alphabetically.*
- [3] A MARKEDLY EXPANDED SAMPLE OF CANDIDATE X-RAY EMITTING ISOLATED NEUTRON STARS  
Demasi, S., Anderson, S., & **Agüeros, M.**, 2023 *Astrophysical Journal (ApJ)* in press
- [4] THE FIRST EVIDENCE OF TIDALLY INDUCED ACTIVITY IN A BROWN DWARF-M DWARF PAIR: A CHANDRA STUDY OF THE NLTT 41135/41136 SYSTEM  
Ilić, N., Poppenhaeger, K., Wolk, S., **Agüeros, M.**, Stelzer, B., 2023, *Monthly Notices of the Royal Astronomical Society (MNRAS)*, 524, 5954
- [5] THE ELM SURVEY SOUTH. II. TWO DOZEN NEW LOW MASS WHITE DWARF BINARIES  
Kosakowski, A., [5 authors], **Agüeros, M.**, 2023, *ApJ*, 950, 141
- [6] HYADES MEMBER K2-136C: THE SMALLEST PLANET IN AN OPEN CLUSTER WITH A PRECISELY MEASURED MASS  
Mayo, A., [14 authors], **Agüeros, M.**, et al., 2023, *Astronomical Journal (AJ)*, 165, 235
- [7] CHEMICALLY PECULIAR STARS IN THE OPEN CLUSTER STOCK 2  
Casamiquela, L., Gebran, M., **Agüeros, M.**, Bouy, H., Soubiran, C. 2022, *AJ*, 164, 255
- [8] 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
- [9] 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
- [10] THE STRONGLY IRRADIATED PLANETS IN PRAESEPE  
King, G., Wheatley, P., Fawcett, V., Miller, N., Corrales, L., **Agüeros, M.** 2022, *MNRAS*, 512, 41
- [11] 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
- [12] 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
- [13] THREE K2 CAMPAIGNS YIELD ROTATION PERIODS FOR 1013 STARS IN PRAESEPE  
<sup>s</sup>Rampalli, R., **Agüeros, M.**, Curtis, J., et al. 2021, *ApJ*, 921, 167

**publications**  
*continued*

- [14] A LYMAN- $\alpha$  TRANSIT LEFT UNDETECTED: THE ENVIRONMENT AND ATMOSPHERIC BEHAVIOR OF K2-25B  
Rockcliffe, K., [5 authors], **Agüeros, M.**, et al. 2021, *AJ*, 162, 116
- [15] 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., Clanzky, V., Mourabit, M., Chanamé, J., **Agüeros, M.** 2021, *AJ*, 162, 109
- [16] STELLAR ROTATION IN THE K2 SAMPLE: EVIDENCE FOR MODIFIED SPINDOWN  
Gordon, T., [5 authors], **Agüeros, M.**, et al. 2021, *ApJ*, 913, 70
- [17] WHEN DO STALLED STARS RESUME SPINNING DOWN? ADVANCING GYROCHRONOLOGY WITH RUPRECHT 147  
Curtis, J., **Agüeros, M.**, Matt, S., et al. 2020, *ApJ*, 904, 140
- [18] ASTRAEA: PREDICTING LONG ROTATION PERIODS WITH 27-DAY LIGHT CURVES  
<sup>s</sup>Lu, L., Angus, R., **Agüeros, M.**, et al. 2020, *AJ*, 160, 168
- [19] 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
- [20] THE ELM SURVEY. VIII. 98 DOUBLE WHITE DWARF BINARIES  
Brown, W., [4 authors], **Agüeros, M.**, et al. 2020, *ApJ*, 889, 49
- [21] 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  
*highlighted by AAS Nova. See: <https://bit.ly/2P5eYYf>*
- [22] 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., <sup>s</sup>Jansen, T. 2019, *ApJ*, 879, 100
- [23] 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  
*highlighted by AAS Nova. See: <https://bit.ly/2YrpYU8>*
- [24] 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
- [25] 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
- [26] 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
- [27] 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
- [28] 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

**publications**  
*continued*

- [29] WIDE BINARIES IN TYCHO-GAIA II: METALLICITIES, ABUNDANCES, AND PROSPECTS FOR CHEMICAL TAGGING  
Andrews, J., Chanamé, J., & **Agüeros, M.** 2018, *MNRAS*, 473, 5393
- [30] WIDE BINARIES IN TYCHO-GAIA: SEARCH METHOD AND THE DISTRIBUTION OF ORBITAL SEPARATIONS  
Andrews, J., Chanamé, J., & **Agüeros, M.** 2017, *MNRAS*, 472, 675
- [31] 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
- [32] POKING THE BEEHIVE FROM SPACE: K2 ROTATION PERIODS FOR PRAESEPE  
<sup>s</sup>Douglas, S., **Agüeros, M.**, Covey, K., Kraus, A. 2017, *ApJ*, 842, 83
- [33] CHROMOSPHERIC AND CORONAL ACTIVITY IN THE 500-MYR-OLD OPEN CLUSTER M37: EVIDENCE FOR CORONAL STRIPPING?  
<sup>s</sup>Núñez, A., **Agüeros, M.**, Covey, K., López-Morales, M. 2017, *ApJ*, 834, 176
- [34] THE X-RAY LUMINOSITY FUNCTION OF M37 AND THE EVOLUTION OF CORONAL ACTIVITY IN LOW-MASS STARS  
<sup>s</sup>Núñez, A. & **Agüeros, M.** 2016, *ApJ*, 830, 44
- [35] TODAY A DUO, BUT ONCE A TRIO? THE DOUBLE WHITE DWARF HS 2220+2146 MAY BE A POST-BLUE STRAGGLER BINARY  
<sup>s</sup>Andrews, J., **Agüeros, M.**, Brown, W., et al. 2016, *ApJ*, 828, 38  
*highlighted by AAS Nova. See: <http://bit.ly/2AUYTbh>*
- [36] 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
- [37] 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
- [38] K2 ROTATION PERIODS FOR LOW-MASS HYADS AND THE IMPLICATIONS FOR GYROCHRONOLOGY  
<sup>s</sup>Douglas, S., **Agüeros, M.**, Covey, K., et al. 2016, *ApJ*, 822, 47
- [39] CONSTRAINTS ON THE INITIAL-FINAL MASS RELATION FROM WIDE DOUBLE WHITE DWARFS  
<sup>s</sup>Andrews, J., **Agüeros, M.**, Gianninas, A., Kilic, M., Dhital, S., Anderson, S. 2015, *ApJ*, 815, 63
- [40] LINKING STELLAR CORONAL ACTIVITY AND ROTATION AT 500 MYR: A DEEP CHANDRA OBSERVATION OF M37  
<sup>s</sup>Núñez, A., **Agüeros, M.**, Covey, K., et al. 2015, *ApJ*, 809, 161
- [41] ULTRACOOL WHITE DWARFS AND THE AGE OF THE GALACTIC DISC  
Gianninas, A., [4 authors], <sup>s</sup>Andrews, J., Canton, P., **Agüeros, M.** 2015, *MNRAS*, 449, 3966
- [42] THE MASS DISTRIBUTION OF COMPANIONS TO LOW-MASS WHITE DWARFS  
<sup>s</sup>Andrews, J., <sup>s</sup>Price-Whelan, A., & **Agüeros, M.** 2014, *ApJL*, 797, L32
- [43] THE FACTORY AND THE BEEHIVE II. ACTIVITY AND ROTATION IN PRAESEPE AND THE HYADES  
<sup>s</sup>Douglas, S., **Agüeros, M.**, Covey, K., et al. 2014, *ApJ*, 795, 161
- [44] 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>*

**publications**  
*continued*

- [45] STATISTICAL SEARCHES FOR MICROLENSING EVENTS IN LARGE, NON-UNIFORMLY SAMPLED TIME-DOMAIN SURVEYS: A TEST USING PALOMAR TRANSIENT FACTORY DATA  
<sup>s</sup>Price-Whelan, A., **Agüeros, M.**, Fournier, A., et al. 2014, *ApJ*, 781, 35
- [46] THE RUNAWAY BINARY LP400–22 IS LEAVING THE GALAXY  
 Kilic, M., [4 authors], **Agüeros, M.**, et al. 2013, *MNRAS*, 434, 3582
- [47] 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
- [48] COMMON PROPER-MOTION WIDE WHITE DWARF BINARIES SELECTED FROM THE SDSS  
<sup>s</sup>Andrews, J., **Agüeros, M.**, Belczynski, K., Dhital, S., Kleinman, S., West, A. 2012, *ApJ*, 757, 170
- [49] THE PTF PHOTOMETRIC CATALOG 1.0  
 Ofek, E., [13 authors], **Agüeros, M.**, et al. 2012, *PASP*, 124, 854
- [50] 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
- [51] THE PTF PHOTOMETRIC CALIBRATION  
 Ofek, E., [13 authors], **Agüeros, M.**, et al. 2012, *PASP*, 124, 62
- [52] CATAclysmic VARIABLES FROM THE SDSS. VIII. THE FINAL YEAR (2007-2008)  
 Szkody, P., [8 authors], **Agüeros, M.**, et al. 2011, *AJ*, 142, 181
- [53] THE FACTORY AND THE BEEHIVE I. ROTATION PERIODS FOR LOW-MASS STARS IN PRAESEPE  
**Agüeros, M.**, Covey, K., <sup>s</sup>Lemonias, J., et al. 2011, *ApJ*, 740, 110
- [54] NO CONFIRMED NEW ISOLATED NEUTRON STARS IN THE SDSS DATA RELEASE 4  
**Agüeros, M.**, Posselt, B., Anderson, S., et al. 2011, *AJ*, 141, 176
- [55] PTF10NVG: AN OUTBURSTING CLASS I PROTOSTAR IN THE PELICAN/NORTH AMERICAN NEBULA  
 Covey, K., [14 authors], **Agüeros, M.**, et al. 2011, *AJ*, 141, 40
- [56] 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
- [57] 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
- [58] NO NEUTRON STAR COMPANION TO THE LOWEST MASS SDSS WHITE DWARF  
**Agüeros, M.**, Heinke, C., Camilo, F., et al. 2009, *ApJL*, 700, L123
- [59] THE SEVENTH DATA RELEASE OF THE SDSS  
 Abazajian, K., Adelman-McCarthy, J., **Agüeros, M.**, et al. 2009, *ApJS*, 182, 543
- [60] 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
- [61] X-RAY EMITTING STARS IDENTIFIED FROM THE RASS AND THE SDSS  
**Agüeros, M.**, Anderson, S., Covey, K., et al. 2009, *ApJS*, 181, 444
- [62] 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

**publications**  
*continued*

- [63] 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.*
- [64] THE COINCIDENCE OF NUCLEAR STAR CLUSTERS AND ACTIVE GALACTIC NUCLEI  
Seth, A., **Agüeros, M.**, <sup>s</sup>Lee, D., <sup>s</sup>Basu-Zych, A. 2008, *ApJ*, 678, 116
- [65] THE SIXTH DATA RELEASE OF THE SDSS  
Adelman-McCarthy, J., **Agüeros, M.**, Allam, S., et al. 2008, *ApJS*, 175, 297
- [66] STELLAR SEDS FROM 0.3 TO 2.5  $\mu\text{m}$ : 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
- [67] THE FIFTH DATA RELEASE OF THE SDSS  
Adelman-McCarthy, J., **Agüeros, M.**, Allam, S., et al. 2007, *ApJS*, 172, 634
- [68] CATAclysmic VARIABLES FROM SDSS VI. THE SIXTH YEAR (2005)  
Szkody, P., [5 authors], **Agüeros, M.**, et al. 2007, *AJ*, 134, 185
- [69] 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
- [70] 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
- [71] 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
- [72] CATAclysmic VARIABLES FROM THE SDSS V. THE FIFTH YEAR (2004)  
Szkody, P., Henden, A., **Agüeros, M.**, et al. 2006, *AJ*, 131, 973
- [73] THE FOURTH DATA RELEASE OF THE SDSS  
Adelman-McCarthy, J., **Agüeros, M.**, Allam, S., et al. 2006, *ApJS*, 162, 38
- [74] THE ULTRAVIOLET, OPTICAL, AND INFRARED PROPERTIES OF SDSS SOURCES DETECTED BY GALEX  
**Agüeros, M.**, Ivezić, Ž., Covey, K., et al. 2005, *AJ*, 130, 1022
- [75] 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
- [76] CATAclysmic VARIABLES FROM THE SDSS IV. THE FOURTH YEAR (2003)  
Szkody, P., [6 authors], **Agüeros, M.**, et al. 2005, *AJ*, 129, 2386
- [77] THE THIRD DATA RELEASE OF THE SDSS  
Abazajian, K., Adelman-McCarthy, J., **Agüeros, M.**, et al. 2005, *AJ*, 129, 1755
- [78] SDSS IMAGING OF LOW GALACTIC LATITUDE FIELDS: TECHNICAL SUMMARY AND DATA RELEASE  
Finkbeiner, D., [20 authors], **Agüeros, M.**, et al. 2004, *AJ*, 128, 2577
- [79] CATAclysmic VARIABLES FROM THE SDSS III. THE THIRD YEAR  
Szkody, P., [5 authors], **Agüeros, M.**, et al. 2004, *AJ*, 128, 1882

**publications**  
*continued*

- [80] THE SECOND DATA RELEASE OF THE SDSS  
Abazajian, K., Adelman-McCarthy, J., **Agüeros, M.**, et al. 2004, *AJ*, 128, 502
- [81] 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
- [82] THE FIRST DATA RELEASE OF THE SDSS  
Abazajian, K., Adelman-McCarthy, J., **Agüeros, M.**, et al. 2003, *AJ*, 126, 2081
- [83] AN X-RAY IMAGE OF THE COMPOSITE SNR G16.7+0.1  
Helfand, D., **Agüeros, M.**, & Gotthelf, E. 2003, *ApJ*, 592, 941
- [84] CATAclysmic VARIABLES FROM THE SDSS I. THE FIRST RESULTS  
Szkody, P., Anderson, S., **Agüeros, M.**, et al. 2002, *AJ*, 123, 430
- [85] THE BULK EXPANSION OF SNR CASSIOPEIA A AT 151 MHz  
**Agüeros, M.** & Green, D. 1999, *MNRAS*, 305, 957

**selected  
conference  
proceedings**

- [1] REFINING THE PLANET-HOSTING OPEN CLUSTER THEIA 520'S AGE USING HIGH-RESOLUTION SPECTRA  
<sup>s</sup>Boaz, S., Curtis, J., <sup>s</sup>Roselli, E., **Agüeros, M.**, Schuler, S. 2023, AAS Meeting #241, id.#402.31
- [2] TESTING THE CONSISTENCY OF AGE INDICATORS IN THREE UNDERSTUDIED OPEN CLUSTERS: ASCC 41, TURNER 5, AND MAMAJEK 4  
<sup>s</sup>Roselli, E., Curtis, J., <sup>s</sup>Boaz, S., **Agüeros, M.**, Schuler, S. 2023, AAS Meeting #241, id.#402.30
- [3] EXPLORING THE DEPENDENCE OF NEAR-UV EMISSION ON ROTATION IN LOW-MASS STARS WITH HST SPECTROSCOPY OF THE HYADES  
<sup>s</sup>Wang, M., Agüeros, M., et al. 2023, AAS Meeting #241, id.#255B.06
- [4] MEASURING ROTATION PERIODS WITH TESS IN CROWDED STAR CLUSTERS  
<sup>s</sup>Stafford, M., Curtis, J., & Agüeros, M. 2022, AAS Meeting #240, id.#305.09
- [5] HOW TO AGE-DATE YOUR STAR USING ROTATION: A USER'S GUIDE TO GYROCHRONOLOGY  
Curtis, J. & **Agüeros, M.** 2022, AAS Meeting #240, id.#208.01
- [6] THEIA 456: NEW STELLAR ASSOCIATION IN THE GALACTIC DISK?  
Andrews, J., Schuler, S., **Agüeros, M.**, et al. 2021, AAS Meeting #237, id.#407.05
- [7] LEAVE NO LOW-MASS STAR BEHIND: RESULTS FROM EXTENDED SURVEYS OF H $\alpha$  EMISSION FROM STARS IN PRAESEPE AND THE HYADES  
Chu, S., <sup>s</sup>DeLaurentiis, S., Núñez, A., **Agüeros, M.**, et al. 2021, AAS Meeting #237, id.#124.04
- [8] HOW LONG DO BEES BUZZ? EXAMINING LIGHT CURVE EVOLUTION FOR LOW-MASS STARS IN PRAESEPE  
<sup>s</sup>Rampalli, R., **Agüeros, M.**, et al. 2020, AAS Meeting #235, id.#273.24
- [9] WHAT CAUSES THE ROTATION PERIOD GAP IN YOUNG CLUSTERS?  
Matt, S., See, V., Breimann, A., Naylor, T., **Agüeros, M.**, Mamajek, E. 2019, AAS Meeting #233, id.#259.27
- [10] USING MACHINE LEARNING TO PREDICT WHICH LIGHT CURVES WILL YIELD STELLAR ROTATION PERIODS  
**Agüeros, M.** & <sup>s</sup>Teachey, A. 2018, AAS Meeting #231, id.349.21



<b>selected research grants</b> <i>&gt; \$3.3M as PI since 2009</i>	<p>REPAIRING EMPIRICAL CLOCKS WITH TESS, ZTF, AND SPECTRA FOR STAR CLUSTERS  NASA: Transiting Exoplanet Survey Satellite (TESS) Cycle 6 Guest Investigator Program  Award Period: 01/01/2024-12/31/2024  Award: \$70,000</p> <p>MOVING BEYOND THE CLASSICS:  NEW BENCHMARK STAR CLUSTERS FOR GYROCHRONOLOGY  NASA: TESS Cycle 6 Guest Investigator Program  Award Period: 01/01/2024-12/31/2024  Award: \$70,000</p> <p>WITNESSING STARS CONVERGE ONTO SLOWLY ROTATING SEQUENCES  NASA: TESS Cycle 5 Guest Investigator Program  Award Period: 01/01/2023-12/31/2023  Award: \$70,000</p> <p>ESTABLISHING BENCHMARK STAR CLUSTERS WITH TESS, ZTF, AND SPECTROSCOPY  NASA: TESS Cycle 5 Guest Investigator Program  Award Period: 01/01/2023-12/31/2023  Award: \$70,000</p> <p>A DEEP DIVE INTO THE ACTIVITY-ROTATION RELATION IN THREE KEY  OPEN CLUSTERS: THE HYADES, PLEIADES, AND PRAESEPE  NASA: Astrophysics Data Analysis Program  Award Period: 05/07/2021-05/06/2024  Award: \$420,475</p> <p>TESTING MODELS FOR MAGNETIC SUPERSATURATION  WITH THE FASTEST ROTATORS IN THE HYADES  Smithsonian Astrophysical Observatory: (SAO): Chandra Cycle 22 General Observer Program  Award period: 01/11/2021-01/10/2023  Award: \$118,490</p> <p>TIME FOR BETTER:  PRECISION STELLAR CLOCKS BUILT WITH KEPLER, TESS, AND GAIA  NSF: Astronomy &amp; Astrophysics Research Grant  Award period: 09/01/2020-08/31/2023  Award: \$522,662</p> <p>NO LONGER ON THE MARGINS:  COMPLETING THE ROTATIONAL CENSUS OF LOW-MASS HYADS WITH TESS  NASA: TESS Cycle 1 Guest Investigator Program  Award period: 03/01/2019-02/29/2020  Award: \$50,000</p> <p>A DECADE ON, WHICH BEES ARE STILL BUZZING?  MONITORING STARSPOT EVOLUTION IN PRAESEPE FROM PTF TO K2  NASA: K2 Cycle 6 Guest Observer Program  Award period: 01/01/2019-12/31/2019  Award: \$50,000</p> <p>A UV SPECTROSCOPIC SNAPSHOT SURVEY OF LOW-MASS STARS IN THE HYADES  Space Telescope Science Institute (STScI): Hubble Space Telescope (HST) Cycle 25  Snapshot Program  Award period: 01/01/2019-12/31/2021  Award: \$160,361</p>	<p>2023</p> <p>2023</p> <p>2022</p> <p>2022</p> <p>2021</p> <p>2020</p> <p>2020</p> <p>2018</p> <p>2018</p> <p>2017</p>
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<b>research grants</b> <i>continued</i>	<p>A UV SPECTROSCOPIC SURVEY OF PERIODIC M DWARFS IN THE HYADES STScI: HST Cycle 25 Guest Observer Program Award period: 08/01/2018-07/31/2021 Award: \$171,161</p> <p>WHY WE SHOULD KEEP POKING THE BEEHIVE: SIMULTANEOUS K2 AND SPECTROSCOPIC OBSERVATIONS OF PRAESEPE NASA: K2 Cycle 5 Guest Observer Program Award period: 01/22/2018-01/21/2019 Award: \$50,000</p> <p>HOW THE OTHER HALF LIVES: COMPLETING THE K2 CENSUS OF LOW-MASS HYADS NASA: K2 Cycle 4 Guest Observer Program Award period: 02/02/2017-09/30/2018 Award: \$40,000</p> <p>A SNAPSHOT SURVEY OF THE HYADES: TESTING MODELS FOR MAGNETIC SATURATION NASA: XMM-Newton AO-15 Guest Observer Program Award period: 01/03/2017-01/02/2019 Award: \$98,262</p> <p>THE MASSIVE COMPANIONS OF LOW-MASS WHITE DWARFS SAO: Chandra Cycle 17 General Observer Program Award period: 01/29/2016-01/28/2018 Award: \$34,823</p> <p>HYPra: ANCHORING THE ROTATION-ACTIVITY RELATION AT 600 MYR NSF: Astronomy &amp; Astrophysics Research Grant Award period: 09/01/2015-08/31/2017 Award: \$206,066</p> <p>CAREER: FIXING STELLAR CHRONOMETERS WITH OPEN CLUSTERS NSF: Faculty Early Career Development (CAREER) program Award period: 06/01/2013-08/31/2019 Award: \$922,185</p> <p>SEARCHING FOR MILLISECOND PULSARS IN EXTREMELY LOW-MASS WHITE DWARF BINARIES National Radio Astronomy Observatory Student Observing Support grant (for Jeff Andrews) Award period: 02/01/2012-01/31/2013 Award: \$35,000</p> <p>DEEP IMAGING OF M37, A BETTER HYADES SAO: Chandra Cycle 13 General Observer Program Award period: 11/16/2011-11/15/2015 Award: \$115,391</p> <p>SEARCHING FOR MILLISECOND PULSARS IN EXTREMELY LOW-MASS WHITE DWARF BINARIES SAO: Chandra Cycle 12 General Observer Program Award period: 03/03/2011-03/02/2014 Award: \$23,182</p> <p>THE COOLEST X-RAY EMITTING WDS? XMM-Newton AO-8 Guest Observer Program Award period: 07/17/2009-07/16/2011 Award: \$56,900</p>	<p>2017</p> <p>2017</p> <p>2016</p> <p>2016</p> <p>2016</p> <p>2015</p> <p>2013</p> <p>2012</p> <p>2011</p> <p>2010</p> <p>2009</p>
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<b>other grants</b>	USING STAR CLUSTERS TO FIX STELLAR CLOCKS	2022
> \$1.5M as PI since 2009	Fulbright U.S. Scholar Program (Award for Research in Southwestern France) Award: €27,000	
	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	
	<b>departmental initiatives</b>	
	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	
	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: 05/01/2012-05/30/2024	
	Total award: \$305,820	
	<b>Bridge to the Ph.D. Program in the Natural Sciences</b>	
	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	
<b>honors, prizes, &amp; fellowships</b>	Fellow of the American Astronomical Society	2023
	Fulbright Scholar, U.S. Department of State	2022
	American Astronomical Society 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 42 <sup>nd</sup> Annual Three Kings Day Parade	2019
	Kavli Frontiers of Sciences Fellow	2016
	NSF Presidential Early Career Award for Scientists and Engineers (PECASE)	2016

<b>honors</b> <i>continued</i>	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	
	<b>colloquia</b> & talks	[1] Invited seminar, Osservatorio Astrofisico di Arcetri, Florence, Italy, May 25, 2023	
		[2] Invited seminar, Cavendish Laboratory Astrophysics Group, Cambridge, UK, Apr. 25, 2023	
		[3] Invited seminar, Laboratoire d'Astrophysique de Bordeaux, Bordeaux, France, Apr. 4, 2023	
		[4] Invited seminar, European Space Astronomy Centre, Villafranca del Castillo, Spain, Mar. 2, 2023	
[5] Invited seminar, Institute of Astronomy, Katholieke Universiteit Leuven, Belgium, Feb. 3, 2023			
[6] Virtual seminar, Lamat Program, University of California, Santa Cruz, Aug. 5, 2021			
[7] Virtual seminar, Latino Initiative, Smithsonian Astrophysical Observatory, May 18, 2021			
[8] Virtual colloquium, NASA Goddard Space Flight Center, May 11, 2021			
[9] Virtual invited talk, NASA Astrophysics Advisory Committee meeting, Oct. 21, 2020			
[10] Colloquium, Institute for Astronomy, University of Hawaii, Oct. 30, 2019			
[11] Invited & contributed talks, Inclusive Astronomy 2, Baltimore, MD, Oct. 15, 2019			
[12] Colloquium, Pontificia Universidad Católica, Santiago, Chile, May 28, 2019			
[13] Colloquium, Dartmouth College, May 3, 2019			
[14] Colloquium, University of Utah, Apr. 18, 2019			
[15] Joint Colloquium, University of Virginia/National Radio Astronomy Observatory, Nov. 29, 2018			
[16] Colloquium, Indiana University, Bloomington, Nov. 13, 2018			
[17] Colloquium, University of California, Santa Cruz, Nov. 7, 2018			
[18] Invited talk, SACNAS National Conference, San Antonio, TX, Oct. 12, 2018			
[19] Invited seminar, Observatoire astronomique de Strasbourg, Strasbourg, France, Oct. 5, 2018			
[20] Contributed plenary talk, 20 <sup>th</sup> Cambridge Workshop on Cool Stars, Boston, MA, Aug. 1, 2018			
[21] Invited seminar, Kazan Federal University, Kazan, Russia, Jun. 15, 2018			
[22] Colloquium, University of North Carolina, Chapel Hill, Apr. 23, 2018			
[23] Colloquium, University of Michigan, Apr. 12, 2018			
[24] Invited seminar, University of Exeter, Exeter, UK, Mar. 14, 2018			
[25] Invited seminar, Rider University, Feb. 23, 2018			
[26] Contributed talk, "Dwarf Stars and Clusters with K2" workshop, Boston, MA, Jan. 16, 2018			
[27] Invited seminar, Vanderbilt University, Dec. 8, 2017			
[28] Joint Astrophysics Colloquium, McGill University, Montreal, Canada, Nov. 28, 2017			
[29] Five College Astronomy Department Colloquium, University of Massachusetts, Sep. 28, 2017			
[30] Contributed talk, "ages <sup>2</sup> : Taking Stellar Ages to the Next Power" meeting, Elba, Italy, Sep. 19, 2017			
[31] Colloquium, Pontificia Universidad Católica, Santiago, Chile, May 23, 2017			
[32] Contributed talk, Latin American XV Regional IAU Meeting, Cartagena, Colombia, Oct. 6, 2016			
[33] Colloquium, University of Texas, Aug. 30, 2016			
[34] Colloquium, Pennsylvania State University, Apr. 20, 2016			
[35] Invited seminar, Imperial College London, London, UK, Oct. 7, 2015			
[36] Invited talk, Inclusive Astronomy, Nashville, TN, Jun. 17, 2015			
[37] Invited talk, "Celebrating 10 Years of Diversity in Astronomy With Pre-MAP" special session, AAS meeting 225, Seattle, WA, Jan. 6, 2015			
[38] Colloquium, University of Rochester, Mar. 31, 2014			

**colloquia  
& talks**  
*continued*

- [39] Contributed talk, “What Asteroseismology Has to Offer to Astrophysics,” International Francqui Symposium (in honor of Conny Aerts), Brussels, Belgium, Dec. 4, 2013
- [40] Invited talk, Tri-State Astronomy Conference, CUNY Graduate Center, NY, NY, Sep. 27, 2013
- [41] Invited talk, American Physical Society’s Second Graduate Education in Physics Conference, College Park, MD, Feb. 1, 2013
- [42] 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
- [43] Invited talk, SACNAS National Conference, Seattle, WA, Oct. 12, 2012
- [44] Invited talk, “Determining the Ages of Low-Mass Stars and Brown Dwarfs” splinter session, 17<sup>th</sup> Cambridge Workshop on Cool Stars, Barcelona, Spain, Jun. 25, 2012
- [45] Colloquium, Yale University, Apr. 5, 2012
- [46] Colloquium, University of Toronto, Mar. 23, 2012
- [47] Invited talk, SACNAS National Conference, San José, CA, Oct. 28, 2011
- [48] Colloquium, Pennsylvania State University, Sep. 28, 2011
- [49] Invited talk, NSBP/National Society of Hispanic Physicists (NSHP) Joint Annual Conference, Austin, TX, Sep. 24, 2011
- [50] Invited talk, PTF Collaboration Meeting, Santa Barbara, CA, May 27, 2011
- [51] Steward Observatory/National Optical Astronomy Observatory Joint Colloquium, Apr. 28, 2011
- [52] Invited seminar, Rutgers University, Apr. 22, 2011
- [53] Cape Town Astronomy & Cosmology Colloquium, South African Astronomical Observatory, Cape Town, South Africa, Apr. 19, 2011
- [54] Contributed talk, 2<sup>nd</sup> Middle-East and Africa Regional IAU Meeting, Cape Town, South Africa, Apr. 14, 2011
- [55] Invited seminar, Center for Interdisciplinary Exploration and Research in Astronomy, Northwestern University, Apr. 5, 2011
- [56] Colloquium, University of Wisconsin-Milwaukee, Apr. 1, 2011
- [57] Colloquium, Columbia University, May 27, 2009
- [58] Invited seminar, College of Staten Island, May 6, 2009
- [59] Contributed talk, NSF Astronomy & Astrophysics Postdoctoral Fellows Symposium, Long Beach, CA, Jan. 4, 2009
- [60] Invited talk, SACNAS National Conference, Salt Lake City, UT, Oct. 10, 2008
- [61] Contributed talk, NSF Astronomy & Astrophysics Postdoctoral Fellows Symposium, Austin, TX, Jan. 6, 2008
- [62] Contributed talk, NSF Astronomy & Astrophysics Postdoctoral Fellows Symposium, Seattle, WA, Jan. 6, 2007
- [63] Colloquium, Kyoto University, Kyoto, Japan, Dec. 5, 2006
- [64] Colloquium, American Museum of Natural History, Nov. 6, 2006
- [65] Invited talk, SACNAS National Conference, Tampa, FL, Oct. 27, 2006
- [66] Colloquium, Vanderbilt University, Feb. 2, 2006
- [67] Invited talk, NSBP/NSHP Joint Annual Conference, Orlando, FL, Feb. 19, 2005
- [68] Invited talk, SACNAS National Conference, Austin, TX, Oct. 23, 2004
- [69] 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 21<sup>st</sup> 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 19<sup>th</sup> Cool Stars meeting, Uppsala, Sweden, June 6-7. Twenty speakers. See <https://bit.ly/2IbUnxv>

<b>meetings organized continued</b>	<p>COOL STARS MARCH MINI-MEETING Co-organizer of a three-day workshop at Columbia U., Mar. 16-18. Fifteen attendees. See <a href="https://bit.ly/2rHtwyD">https://bit.ly/2rHtwyD</a></p> <p>CUPUC WORKSHOP II 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 <a href="https://bit.ly/2rEg538">https://bit.ly/2rEg538</a></p> <p>CUPUC WORKSHOP I 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 <a href="https://bit.ly/2Idvp0K">https://bit.ly/2Idvp0K</a></p> <p>COOL STARS COLUMBIA-CORNELL WORKSHOP Co-organizer of a week-long workshop in Ithaca, NY, Aug. 9-13. Fifteen attendees. Culminated in one-day symposium; see <a href="https://bit.ly/2jTIYUH">https://bit.ly/2jTIYUH</a></p> <p>“PLANETS, STARS, GALAXIES, ENGINEERS: ASTRONOMY INSTRUMENTATION AND YOU” Co-organizer of National Optical Astronomy Observatory workshop at annual meeting of the Society of Hispanic Professional Engineers, Washington, DC, Oct. 29. See <a href="https://bit.ly/2If6Cp1">https://bit.ly/2If6Cp1</a></p> <p>ANNUAL RESEARCH SYMPOSIUM, BRIDGE TO THE PH.D. PROGRAM Organize symposium at Columbia to highlight research accomplishments of Program participants and alumni. Usually features a dozen speakers and 50-80 attendees.</p> <p>ASTRONOMY SESSIONS, NSBP/NSHP JOINT MEETING Co-organizer of four sessions at annual NSBP/NSHP meeting, Nashville, TN, Feb. 12-14. Nineteen speakers, 30-50 attendees. See <a href="https://bit.ly/2GdMBgS">https://bit.ly/2GdMBgS</a></p> <p>ASTRONOMY SESSIONS, NSBP/NSHP JOINT MEETING Co-organizer of three sessions at annual NSBP/NSHP meeting, Washington, DC, Feb. 22-23. Fourteen speakers, 30-50 attendees. See <a href="https://bit.ly/2jVLz00">https://bit.ly/2jVLz00</a></p>	<p>2016</p> <p>2015</p> <p>2015</p> <p>2010</p> <p>2009</p> <p>2009-present</p> <p>2009</p> <p>2008</p>
<b>grants for meetings</b>	<p>WE ARE FAMILY: THE BRIDGE PROGRAM’S TENTH ANNIVERSARY SYMPOSIUM NSF: unsolicited proposal Award period: 05/01/2018-04/30/2019 Award: \$30,000</p> <p>TEAMING UP TO PREPARE FOR THE NEXT DECADE IN TIME-DOMAIN ASTROPHYSICS: A JOINT WORKSHOP WITH THE PONTIFICIA UNIVERSIDAD CATÓLICA DE CHILE Columbia U. President’s Global Innovation Fund Award period: 06/01/2014-05/31/2015 Award: \$25,000</p> <p>ENHANCING THE ROLE OF PHYSICS AND OF THE NSHP AT THE SACNAS NATIONAL CONFERENCE 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</p> <p>THE 2011 JOINT ANNUAL CONFERENCE OF THE NSBP/NSHP NSF: unsolicited proposal (PI: J. Draayer, SURA) Award period: 06/15/2011-05/31/2012 Award: \$299,380</p>	<p>2018</p> <p>2014</p> <p>2012</p> <p>2011</p>

<b>service to university</b>	SELECTION COMMITTEE, PRESIDENTIAL AWARDS FOR OUTSTANDING TEACHING BY FACULTY Identified candidates for Presidential Awards for Outstanding Teaching, established in 1996 to honor Columbia U.'s best instructors.	2019-2022
	REVIEWER, OFFICE OF GLOBAL PROGRAMS & FELLOWSHIPS Evaluated applications for Columbia's Kellett Fellowship and for the national Churchill and Goldwater Scholarships.	2013-2015
	NASA NEW YORK SPACE GRANT CONSORTIUM REPRESENTATIVE, DEPARTMENT OF ASTRONOMY Serve as liaison with state Space Grant office. Responsible for grant-writing ( $\approx$ \$325,000 since 2010 for department activities, including support for outreach).	2010-present
	FACULTY OUTREACH DIRECTOR, DEPARTMENT OF ASTRONOMY With assistance of half-time outreach administrator, oversee departmental outreach efforts, which reach $\approx$ 3000 people a year. See <a href="http://outreach.astro.columbia.edu">http://outreach.astro.columbia.edu</a>	2010-2022
	FOUNDING DIRECTOR, BRIDGE TO PH.D. PROGRAM IN STEM Lead Columbia program that prepares underrepresented post-baccalaureates for transition into Ph.D. programs. See <a href="http://bitly.com/cubridge">http://bitly.com/cubridge</a>	2008-present
<b>service to discipline</b>	MEMBER, TRANSITING EXOPLANET SURVEY SATELLITE USERS COMMITTEE Provide input to ensure that TESS remains a productive observatory in its extended mission.	2023-present
	MEMBER, ADVISORY COMMITTEE, AMERICAN INSTITUTE OF PHYSICS (AIP) STATISTICAL RESEARCH CENTER (SRC) Advise SRC on data collection related to AIP's mission to advance the success of the physical sciences.	2023-present
	MEMBER, BARRY GOLDWATER SCHOLARSHIP REVIEW COMMITTEE Reviewed physics and astronomy applications for Goldwater Scholarship, the most prestigious scholarship for undergraduate STEM majors.	2023
	MEMBER, NASA ASTROPHYSICS SENIOR REVIEW SUBCOMMITTEE Participated in triennial evaluation of NASA astrophysics missions. See <a href="https://go.nasa.gov/3mCHDSs">https://go.nasa.gov/3mCHDSs</a>	2022
	MEMBER, NASA PANEL REVIEWING HUBBLE FELLOWSHIP PROGRAM Tasked by NASA with conducting first review of its flagship post-doctoral fellowship program. See <a href="https://go.nasa.gov/3HELBC9">https://go.nasa.gov/3HELBC9</a>	2021
	MEMBER, EXPERT WORKING GROUP ON PANEL REFORM, RESEARCH FOUNDATION – FLANDERS (BELGIUM) Charged by Flemish equivalent of the NSF with how best to structure review panels for thousands of research applications received each year.	2020-present
	MEMBER, SCIENCE ADVISORY COUNCIL, STAMFORD MUSEUM & NATURE CENTER, STAMFORD, CT Advise on development of science programming for museum. See <a href="https://www.stamfordmuseum.org/">https://www.stamfordmuseum.org/</a>	2019-present

<b>service to discipline</b> <i>continued</i>	<p>MEMBER, ALLIANCE MANAGEMENT TEAM, INCLUSIVE GRADUATE EDUCATION NETWORK (IGEN) 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 <a href="https://igenetwork.org/">https://igenetwork.org/</a></p> <p>CHAIR, EXPERT PANEL: SCIENCES OF THE EARTH AND SPACE, RESEARCH FOUNDATION – FLANDERS (BELGIUM) Chaired panel evaluating proposals in astrophysics and Earth sciences.</p> <p>MEMBER, AMERICAN ASTRONOMICAL SOCIETY TASK FORCE ON DIVERSITY AND INCLUSION IN ASTRONOMY GRADUATE EDUCATION Co-authored report commissioned by the AAS. Co-chaired working group on admissions and recruitment. See <a href="https://bit.ly/2ZxfIIa">https://bit.ly/2ZxfIIa</a></p> <p>TRUSTEE, AMERICAN ASTRONOMICAL SOCIETY 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.</p> <p>MEMBER, LSST INTERNATIONAL CONTRIBUTORS COMMITTEE Elected member of the LSST Corporation's committee responsible for managing international partnerships.</p> <p>MEMBER, SELECTION COMMITTEE, GOLDEN GOOSE AWARD Select recipients of the American Association for the Advancement of Science's annual award for quirky and impactful science.</p> <p>MEMBER, SPACE STUDIES BOARD COMMITTEE ASSESSING THE NSF'S 2015 GEOSPACE PORTFOLIO REVIEW Evaluated NSF's review of its Geospace portfolio against Decadal Survey priorities.</p> <p>MEMBER, EXPERT PANEL: SCIENCES OF THE EARTH AND SPACE, RESEARCH FOUNDATION – FLANDERS (BELGIUM) Served on panel evaluating in astrophysics and Earth sciences.</p> <p>MEMBER, COMMUNITY SCIENCE ADVISORY COMMITTEE, ZWICKY TRANSIENT FACILITY (ZTF) Advised the ZTF PI Shri Kulkarni on matters of importance to the US community.</p> <p>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.</p> <p>PROPOSAL REVIEWER Chilean National Commission for Science and Technology and National Agency of Research and Development; NSF GK-12, AAPF, and Astronomy &amp; Astrophysics Research Grants programs; NSF facilities management competition; NASA Post-doctoral Program; MIT, Oxford, and Columbia University Presses; Elsevier; Sloan Foundation.</p> <p>SCIENTIFIC REFEREE <i>ApJ, Astronomy &amp; Astrophysics, MNRAS, and PASP.</i></p>	<p>2019-2022</p> <p>2019-2020</p> <p>2018-2019</p> <p>2017-2021</p> <p>2017-2019</p> <p>2016-present</p> <p>2016</p> <p>2015-2018</p> <p>2014-2020</p> <p>2011-2012</p>
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