

MARCEL AGÜEROS

Department of Astronomy
Mail Code 5246
550 West 120th Street
New York, NY 10027

phone: (212) 854 6814
email: marcel@astro.columbia.edu
web: <http://user.astro.columbia.edu/~marcel/>

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 UN1836: STARS AND ATOMS Spring 2016, Fall ’17, ’18, Spring ’20, ’21, ’22, ’24
Introductory-level course on stellar evolution and nucleosynthesis.

ASTRONOMY UN2001: INTRODUCTION TO ASTROPHYSICS I Fall 2021, ’23
First term of a two-term calculus-based sequence 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 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 <i>continued</i>	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
	<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.	
students supervised	Ph.D. thesis advisor	
	• ALEJANDRO NÚÑEZ (<i>defended Aug. 6, 2018</i>)	2013-2018
	Dissertation title: “Exploring the Stellar Age-Rotation-Activity Relation Using the α -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>	
	Ph.D. thesis committee member	
	• 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”	
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 AAFP, 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 (2024): *h*-index: 40, citations: 12,931
 - ^s indicates that the author was a Columbia U. student at the time of publication
- [1] 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.
- [2] 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. 2024, *Astrophysical Journal (ApJ)*, 962, 12
- [3] A MARKEDLY EXPANDED SAMPLE OF CANDIDATE X-RAY EMITTING ISOLATED NEUTRON STARS
Demasi, S., Anderson, S., & **Agüeros, M.**, 2024, *ApJ*, 961, 36
- [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
^sRampalli, R., **Agüeros, M.**, Curtis, J., et al. 2021, *ApJ*, 921, 167

publications
continued

- [14] 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
- [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
^sLu, 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., ^sJansen, 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
^sDouglas, 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?
^sNúñez, 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
^sNúñez, 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
^sAndrews, 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
^sDouglas, S., **Agüeros, M.**, Covey, K., et al. 2016, *ApJ*, 822, 47
- [39] CONSTRAINTS ON THE INITIAL-FINAL MASS RELATION FROM WIDE DOUBLE WHITE DWARFS
^sAndrews, 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
^sNúñez, 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], ^sAndrews, J., Canton, P., **Agüeros, M.** 2015, *MNRAS*, 449, 3966
- [42] THE MASS DISTRIBUTION OF COMPANIONS TO LOW-MASS WHITE DWARFS
^sAndrews, J., ^sPrice-Whelan, A., & **Agüeros, M.** 2014, *ApJL*, 797, L32
- [43] THE FACTORY AND THE BEEHIVE II. ACTIVITY AND ROTATION IN PRAESEPE AND THE HYADES
^sDouglas, 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
^sPrice-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
^sAndrews, 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., ^sLemonias, 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.**, ^sLee, D., ^sBasu-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 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
- [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
- [86] AN ANCIENT VISITOR RETURNS?
Allchin, F. R. & **Agüeros, M.** 1998, *South Asian Studies*, 14, 155

**selected
conference
proceedings**

- [1] ARE THE PLEIADES CLUSTER, AB DORADUS MOVING GROUP, AND THEIA 301 “STELLAR STRING” RELATED?
^sLawsky, S., Curtis, J., & **Agüeros, M.**. 2024, AAS Meeting #243, id.#
- [2] REFINING THE PLANET-HOSTING OPEN CLUSTER THEIA 520’S AGE USING HIGH-RESOLUTION SPECTRA
^sBoaz, S., Curtis, J., ^sRoselli, E., **Agüeros, M.**, Schuler, S. 2023, AAS Meeting #241, id.#402.31
- [3] TESTING THE CONSISTENCY OF AGE INDICATORS IN THREE UNDERSTUDIED OPEN CLUSTERS: ASCC 41, TURNER 5, AND MAMAJEK 4
^sRoselli, E., Curtis, J., ^sBoaz, S., **Agüeros, M.**, Schuler, S. 2023, AAS Meeting #241, id.#402.30
- [4] EXPLORING THE DEPENDENCE OF NEAR-UV EMISSION ON ROTATION IN LOW-MASS STARS WITH HST SPECTROSCOPY OF THE HYADES
^sWang, M., Agüeros, M., et al. 2023, AAS Meeting #241, id.#255B.06
- [5] MEASURING ROTATION PERIODS WITH TESS IN CROWDED STAR CLUSTERS
^sStafford, M., Curtis, J., & Agüeros, M. 2022, AAS Meeting #240, id.#305.09
- [6] 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
- [7] THEIA 456: NEW STELLAR ASSOCIATION IN THE GALACTIC DISK?
Andrews, J., Schuler, S., **Agüeros, M.**, et al. 2021, AAS Meeting #237, id.#407.05
- [8] LEAVE NO LOW-MASS STAR BEHIND: RESULTS FROM EXTENDED SURVEYS OF H α EMISSION FROM STARS IN PRAESEPE AND THE HYADES
Chu, S., ^sDeLaurentiis, S., Núñez, A., **Agüeros, M.**, et al. 2021, AAS Meeting #237, id.#124.04
- [9] HOW LONG DO BEES BUZZ? EXAMINING LIGHT CURVE EVOLUTION FOR LOW-MASS STARS IN PRAESEPE
^sRampalli, R., **Agüeros, M.**, et al. 2020, AAS Meeting #235, id.#273.24
- [10] 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

selected research grants > \$3.3M as PI since 2010	M39, A NEW BENCHMARK FOR THE ACTIVITY-ROTATION RELATION IN LOW-MASS STARS NASA: XMM-Newton AO-23 Guest Observer Program Award period: TBD Award: TBD	2024
	EXPLORING THE JUVENILE BEHAVIOR OF 2.7-GYR-OLD STARS IN RUPRECHT 147 NASA: XMM-Newton AO-24 Guest Observer Program Award period: TBD Award: TBD	2024
	REPAIRING EMPIRICAL CLOCKS WITH TESS, ZTF, AND SPECTRA FOR STAR CLUSTERS NASA: Transiting Exoplanet Survey Satellite (TESS) Cycle 6 Guest Investigator Program Award Period: 01/02/2024-01/01/2025 Award: \$70,000	2023
	NEW BENCHMARK STAR CLUSTERS FOR GYROCHRONOLOGY NASA: TESS Cycle 6 Guest Investigator Program Award Period: 01/01/2024-12/31/2024 Award: \$70,000	2023
	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	2022
	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	2022
	A STELLAR ROTATION SURVEY OF YOUNG COEVAL POPULATIONS NASA: TESS Cycle 4 Guest Investigator Program Award Period: 01/01/2022-12/31/2022 Award: \$70,000	2021
	A DEEP DIVE INTO THE ACTIVITY-ROTATION RELATION IN THREE KEY OPEN CLUSTERS NASA: Astrophysics Data Analysis Program Award Period: 05/07/2021-05/06/2024 Award: \$420,475	2021
	TESTING MODELS FOR MAGNETIC SUPERSATURATION Smithsonian Astrophysical Observatory (SAO): Chandra Cycle 22 General Observer Program Award period: 01/11/2021-01/10/2023 Award: \$118,490	2020
	PRECISION STELLAR CLOCKS BUILT WITH KEPLER, TESS, AND GAIA NSF: Astronomy & Astrophysics Research Grant Award period: 09/01/2020-08/31/2023 Award: \$522,662	2020
	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	2018
	MONITORING STARSPOUT 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	2018

research grants <i>continued</i>	<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>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>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 & 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>2017</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>
--	--	---

<i>CV, Marcel Agüeros, Spring 2024</i>		11
other grants > \$1.5M as PI since 2010	USING STAR CLUSTERS TO FIX STELLAR CLOCKS Fulbright U.S. Scholar Program (Award for Research in Southwestern France) Award: €27,000	2022
	AAS CHRÉTIEN INTERNATIONAL RESEARCH GRANT Award: \$15,550	2021
	PROVOST'S GRANTS PROGRAM FOR MID-CAREER FACULTY WHO CONTRIBUTE TO THE DIVERSITY GOALS OF THE UNIVERSITY Award: \$36,850	2021
	LENFEST JUNIOR FACULTY DEVELOPMENT GRANTS Total award: \$10,210	2015, 2017, 2018
	departmental initiatives	
	CUPUC: A PARTNERSHIP WITH ASTRONOMERS AT THE PONTIFICIA UNIVERSIDAD CATÓLICA DE CHILE Columbia U. President's Global Innovation Fund Award period: 06/01/2016-05/31/2018 Award: \$50,000	2016
	THE LARGE SYNOPTIC SURVEY TELESCOPE (LSST) AND THE FUTURE OF ASTRONOMY 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	2013
	COLUMBIA'S PARTICIPATION IN THE CORNELL SPACE GRANT CONSORTIUM NASA New York Space Grant Consortium Total award period: 05/01/2012-05/30/2024 Total award: \$344,000	2012-present
	Bridge to the Ph.D. Program in the Natural Sciences	
	A BRIDGE TO THE FUTURE NSF: unsolicited proposal Award period: 09/01/2015-08/31/2019 Award: \$403,210	2016
	A RESEARCH-INTENSIVE PREPARATION FOR THE TRANSITION TO GRADUATE SCHOOL NSF: unsolicited proposal Award period: 10/01/2010-09/30/2013 Award: \$692,321	2010
	A BRIDGE TO THE ASTRONOMY PH.D. AT COLUMBIA UNIVERSITY New York NASA Space Grant Consortium Total award period: 05/01/2008-04/30/2010 Total award: \$20,000	2008, 2009
honors, prizes, & fellowships	Research Corporation for Science Advancement Robert Holland Jr. Award for Research Excellence and Contributions to Diversity, Equity and Inclusion	2024
	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 nd Annual Three Kings Day Parade	2019

honors	Kavli Frontiers of Sciences Fellow	2016
<i>continued</i>	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

**colloquia
& talks**

- [1] Invited seminar, Colgate University, Nov. 7, 2023
- [2] Invited seminar, Osservatorio Astrofisico di Arcetri, Florence, Italy, May 25, 2023
- [3] Invited seminar, Cavendish Laboratory Astrophysics Group, Cambridge, UK, Apr. 25, 2023
- [4] Invited seminar, Laboratoire d'Astrophysique de Bordeaux, Bordeaux, France, Apr. 4, 2023
- [5] Invited seminar, European Space Astronomy Centre, Villafranca del Castillo, Spain, Mar. 2, 2023
- [6] Invited seminar, Institute of Astronomy, Katholieke Universiteit Leuven, Belgium, Feb. 3, 2023
- [7] Virtual seminar, Lamat Program, University of California, Santa Cruz, Aug. 5, 2021
- [8] Virtual seminar, Latino Initiative, Smithsonian Astrophysical Observatory, May 18, 2021
- [9] Virtual colloquium, NASA Goddard Space Flight Center, May 11, 2021
- [10] Virtual invited talk, NASA Astrophysics Advisory Committee meeting, Oct. 21, 2020
- [11] Colloquium, Institute for Astronomy, University of Hawaii, Oct. 30, 2019
- [12] Invited & contributed talks, Inclusive Astronomy 2, Baltimore, MD, Oct. 15, 2019
- [13] Colloquium, Pontificia Universidad Católica, Santiago, Chile, May 28, 2019
- [14] Colloquium, Dartmouth College, May 3, 2019
- [15] Colloquium, University of Utah, Apr. 18, 2019
- [16] Joint Colloquium, University of Virginia/National Radio Astronomy Observatory, Nov. 29, 2018
- [17] Colloquium, Indiana University, Bloomington, Nov. 13, 2018
- [18] Colloquium, University of California, Santa Cruz, Nov. 7, 2018
- [19] Invited talk, SACNAS National Conference, San Antonio, TX, Oct. 12, 2018
- [20] Invited seminar, Observatoire astronomique de Strasbourg, Strasbourg, France, Oct. 5, 2018
- [21] Contributed plenary talk, 20th Cambridge Workshop on Cool Stars, Boston, MA, Aug. 1, 2018
- [22] Invited seminar, Kazan Federal University, Kazan, Russia, Jun. 15, 2018
- [23] Colloquium, University of North Carolina, Chapel Hill, Apr. 23, 2018
- [24] Colloquium, University of Michigan, Apr. 12, 2018
- [25] Invited seminar, University of Exeter, Exeter, UK, Mar. 14, 2018
- [26] Invited seminar, Rider University, Feb. 23, 2018
- [27] Contributed talk, "Dwarf Stars and Clusters with K2" workshop, Boston, MA, Jan. 16, 2018
- [28] Invited seminar, Vanderbilt University, Dec. 8, 2017
- [29] Joint Astrophysics Colloquium, McGill University, Montreal, Canada, Nov. 28, 2017
- [30] Five College Astronomy Department Colloquium, University of Massachusetts, Sep. 28, 2017
- [31] Contributed talk, "ages²: Taking Stellar Ages to the Next Power" meeting, Elba, Italy, Sep. 19, 2017
- [32] Colloquium, Pontificia Universidad Católica, Santiago, Chile, May 23, 2017
- [33] Contributed talk, Latin American XV Regional IAU Meeting, Cartagena, Colombia, Oct. 6, 2016
- [34] Colloquium, University of Texas, Aug. 30, 2016
- [35] Colloquium, Pennsylvania State University, Apr. 20, 2016
- [36] Invited seminar, Imperial College London, London, UK, Oct. 7, 2015
- [37] Invited talk, Inclusive Astronomy, Nashville, TN, Jun. 17, 2015

**colloquia
& talks**
continued

- [38] Invited talk, “Celebrating 10 Years of Diversity in Astronomy With Pre-MAP” special session, AAS meeting 225, Seattle, WA, Jan. 6, 2015
- [39] Colloquium, University of Rochester, Mar. 31, 2014 [40] Contributed talk, “What Asteroseismology Has to Offer to Astrophysics,” International Francqui Symposium (in honor of Conny Aerts), Brussels, Belgium, Dec. 4, 2013
- [41] Invited talk, Tri-State Astronomy Conference, CUNY Graduate Center, NY, NY, Sep. 27, 2013
- [42] Invited talk, American Physical Society’s Second Graduate Education in Physics Conference, College Park, MD, Feb. 1, 2013
- [43] 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
- [44] Invited talk, SACNAS National Conference, Seattle, WA, Oct. 12, 2012
- [45] Invited talk, “Determining the Ages of Low-Mass Stars and Brown Dwarfs” splinter session, 17th Cambridge Workshop on Cool Stars, Barcelona, Spain, Jun. 25, 2012
- [46] Colloquium, Yale University, Apr. 5, 2012
- [47] Colloquium, University of Toronto, Mar. 23, 2012
- [48] Invited talk, SACNAS National Conference, San José, CA, Oct. 28, 2011
- [49] Colloquium, Pennsylvania State University, Sep. 28, 2011
- [50] Invited talk, NSBP/National Society of Hispanic Physicists (NSHP) Joint Annual Conference, Austin, TX, Sep. 24, 2011
- [51] Invited talk, PTF Collaboration Meeting, Santa Barbara, CA, May 27, 2011
- [52] Steward Observatory/National Optical Astronomy Observatory Joint Colloquium, Apr. 28, 2011
- [53] Invited seminar, Rutgers University, Apr. 22, 2011
- [54] Cape Town Astronomy & Cosmology Colloquium, South African Astronomical Observatory, Cape Town, South Africa, Apr. 19, 2011
- [55] Contributed talk, 2nd Middle-East and Africa Regional IAU Meeting, Cape Town, South Africa, Apr. 14, 2011
- [56] Invited seminar, Center for Interdisciplinary Exploration and Research in Astronomy, Northwestern University, Apr. 5, 2011
- [57] Colloquium, University of Wisconsin-Milwaukee, Apr. 1, 2011
- [58] Colloquium, Columbia University, May 27, 2009
- [59] Invited seminar, College of Staten Island, May 6, 2009
- [60] Contributed talk, NSF Astronomy & Astrophysics Postdoctoral Fellows Symposium, Long Beach, CA, Jan. 4, 2009
- [61] Invited talk, SACNAS National Conference, Salt Lake City, UT, Oct. 10, 2008
- [62] Contributed talk, NSF Astronomy & Astrophysics Postdoctoral Fellows Symposium, Austin, TX, Jan. 6, 2008
- [63] Contributed talk, NSF Astronomy & Astrophysics Postdoctoral Fellows Symposium, Seattle, WA, Jan. 6, 2007
- [64] Colloquium, Kyoto University, Kyoto, Japan, Dec. 5, 2006
- [65] Colloquium, American Museum of Natural History, Nov. 6, 2006
- [66] Invited talk, SACNAS National Conference, Tampa, FL, Oct. 27, 2006
- [67] Colloquium, Vanderbilt University, Feb. 2, 2006
- [68] Invited talk, NSBP/NSHP Joint Annual Conference, Orlando, FL, Feb. 19, 2005
- [69] Invited talk, SACNAS National Conference, Austin, TX, Oct. 23, 2004
- [70] 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>

meetings organized continued	<p>COOL STARS MARCH MINI-MEETING Co-organizer of a three-day workshop at Columbia U., Mar. 16-18. Fifteen attendees. See https://bit.ly/2rHtwyD</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 https://bit.ly/2rEg538</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 https://bit.ly/2Idvp0K</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 https://bit.ly/2jTIYUH</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.</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 https://bit.ly/2GdMBgS</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 https://bit.ly/2jVLz00</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>
grants for meetings	<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>

service to university	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, 2024
	NASA NEW YORK SPACE GRANT CONSORTIUM REPRESENTATIVE, DEPARTMENT OF ASTRONOMY Serve as liaison with state Space Grant office. Responsible for grant-writing (\approx \$400,000 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 reached \approx 3000 people a year.	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 https://bridgetophd.facultydiversity.columbia.edu/	2008-present
service to discipline	MEMBER, ADVISORY COMMITTEE, TEAM-UP TOGETHER Advise leadership of TEAM-UP Together, an initiative to double the number of Black students earning physics and astronomy degrees nationally by 2030. See https://www.teamuptogether.org/	2024-present
	MEMBER, REVIEW PANEL, PHYSICS AND ASTRONOMY STEMM EQUITY ACHIEVEMENT CHANGE (SEA CHANGE) PROJECT Evaluate departments applying for SEA Change recognition of their systemic efforts to address equity, diversity, and inclusion.	2024
	MEMBER, NOIRLAB'S ANNUAL PROGRAM REVIEW PANEL Tasked by NSF with evaluating NOIRLab's performance in managing and operating its observatories and centers in FY 2023 and its plans for FY 2024.	2024
	MEMBER, TRANSITING EXOPLANET SURVEY SATELLITE USERS COMMITTEE Provide input to ensure that TESS remains a productive observatory in its extended mission.	2023-present
	MEMBER, EXTERNAL REVIEW COMMITTEE, WESLEYAN UNIVERSITY DEPARTMENT OF ASTRONOMY Tasked with evaluating department for university provost.	2023
	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 https://tinyurl.com/yy24f7s7	2022

service to discipline continued	<p>MEMBER, NASA PANEL REVIEWING HUBBLE FELLOWSHIP PROGRAM Tasked by NASA with conducting first review of its flagship post-doctoral fellowship program. See https://tinyurl.com/zvzbdn6u</p> <p>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.</p> <p>MEMBER, SCIENCE ADVISORY COUNCIL, STAMFORD MUSEUM & NATURE CENTER, STAMFORD, CT Advise on development of science programming for museum. See https://www.stamfordmuseum.org/</p> <p>MEMBER, ALLIANCE MANAGEMENT TEAM, INCLUSIVE GRADUATE EDUCATION NETWORK (IGEN) Represented 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/</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 https://tinyurl.com/4z7kw42w</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>EXPERT PANEL: SCIENCES OF THE EARTH AND SPACE, RESEARCH FOUNDATION – FLANDERS (BELGIUM) Served on and later chaired panel evaluating proposals 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 & Astrophysics</p>	<p>2021</p> <p>2020-present</p> <p>2019-present</p> <p>2019-2022</p> <p>2018-2019</p> <p>2017-2021</p> <p>2017-2019</p> <p>2016-present</p> <p>2016</p> <p>Chair, 2019-2020 Member, 2015-2018</p> <p>2014-2020</p> <p>2011-2012</p>
--	---	---

Research Grants programs; NSF facilities management competition; NASA Post-doctoral Program; MIT, Oxford, and Columbia University Presses; Elsevier; Sloan Foundation.

SCIENTIFIC REFEREE

ApJ, Astronomy & Astrophysics, MNRAS, and PASP.