

MARCEL AGÜEROS

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

phone: (212) 854 6814
fax: (212) 854 8121
email: marcel@astro.columbia.edu
web: <http://www.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
M.S. & Ph.D., Astronomy | 2002, 2006 |
| EMMANUEL COLLEGE, UNIVERSITY OF CAMBRIDGE, UK
M.Phil., Physics | 1998 |
| COLUMBIA COLLEGE, COLUMBIA UNIVERSITY, NEW YORK, NY
B.A., Astronomy, <i>magna cum laude</i> | 1996 |
- 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
Associate Professor of Astronomy | 2010-present
2017-present |
| Assistant Professor of Astronomy
<i>on parental leave 2013-2014, 2015-2016</i> | 2010-2017 |
| ASTROPHYSICS LABORATORY, COLUMBIA UNIVERSITY
National Science Foundation (NSF) Astronomy & Astrophysics Post-doctoral Fellow (AAPF) | 2006-2010 |
- courses taught**
- undergraduate**
- | | |
|---|------------------------------------|
| ASTRONOMY UN3998: INDEPENDENT RESEARCH
Seminar for undergraduates engaged in research focused on developing professional skills. | Spring 2019 |
| ASTRONOMY UN1836: STARS AND ATOMS
Introductory-level course on stellar evolution and nucleosynthesis. | Spring 2016, Fall 2017, 2018 |
| ASTRONOMY UN1403: EARTH, MOON, AND PLANETS
Introductory-level course on the Solar System. | Fall 2010, 2012, Spring 2015, 2017 |
| ASTRONOMY UN3101: MODERN STELLAR ASTROPHYSICS
Survey of stellar structure and evolution for physical-sciences majors. | Spring 2013, Fall 2014, Fall 2016 |

courses taught <i>continued</i>	graduate	
	ASTRONOMY G9002: STELLAR AGES: PROMISES AND CHALLENGES	Spring 2018
	Seminar examining the importance of, and challenges involved in, measuring stellar ages.	
	ASTRONOMY G9004: RESEARCH SEMINAR	Spring 2011, 2014
	Seminar for beginning graduate students focused on developing professional skills.	
	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 a post-doctoral researcher in the 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 NSF AAPPF at the Harvard-Smithsonian Center for Astrophysics</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 Dark Cosmology Centre post-doctoral fellow at Niels Bohr Institute, University of Copenhagen, Denmark</i>	
	Ph.D. thesis committee member	
	• ALEX TEACHEY	2018-present
	“Finding Exomoons at Large Semi-Major Axes”	
	• STEVEN MOHAMMED	2016-present
	“PUGS: Planar UV Galactic Survey”	
	first-/second-year graduate project advisor	
	• 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-present	
• DAVID JAIMES	2013-2015	
• EMILY BOWSHER	2011-2014	
• EMILY NEWSOM	2008-2009	
undergraduate senior thesis advisor		
• MARISA PISANO	2014-2016	
“Revisiting Optical Supernova Remnants in NGC 6946”		
• DAVID FIERROZ	2010-2011	
“Observing the Praesepe Cluster to Investigate the Age-Activity Relation”		
post-docs supervised	• JASON CURTIS (<i>NSF AAPPF</i>)	2016-present
	• ANDREW MANN (<i>Hubble Post-doctoral Fellow</i>)	2017-2018
	<i>Now a faculty member at the University of North Carolina, Chapel Hill</i>	

**publications
in prep.**

- [1] WIDE BINARIES IN TYCHO-GAIA III: TESTING GRAVITY AT WEAK ACCELERATIONS IN THE ABSENCE OF DARK MATTER
Chanamé, J., Andrews, J., & **Agüeros, M.**
- [2] CATALOGING THE PRAESEPE CLUSTER: IDENTIFYING INTERLOPERS AND BINARY SYSTEMS
Gosnell, N., Lucey, M., Mann, A., Douglas, S., Seifert, R., **Agüeros, M.**

publications

- impact factors for main astronomy journals (as of 2016, unless otherwise noted):
 - *Astronomical Journal (AJ)*: 3.773
 - *Astrophysical Journal (ApJ)*: 5.533
 - *Astrophysical Journal Letters (ApJL)*: 5.522
 - *Astrophysical Journal Supplement Series (ApJS)*: 8.955
 - *Monthly Notices of the Royal Astronomical Society (MNRAS)*: 4.921 (2018)
 - *Publications of the Astronomical Society of the Pacific (PASP)*: 4.446
- numbers in bold indicate papers led by members of my group at Columbia, or to which I contributed significantly, after joining the faculty in 2010
- ^s indicates that the author was a Columbia graduate student at the time of publication
- Web of Science: *h*-index: 28, citations (without self-citations): 9339

[1] 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*, submitted

[2] 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*, submitted

[3] 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*, submitted

[4] 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

[5] 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

[6] 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

[7] 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

[8] 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

[9] 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, *Research Notes of the AAS*, 2, 60

[10] VALIDATING TGAS WIDE BINARIES WITH GAIA DR2 RADIAL VELOCITIES AND PARALLAXES
Andrews, J., Chanamé, J., & **Agüeros, M.** 2018, *Research Notes of the AAS*, 2, 29

publications
continued

- [11] WIDE BINARIES IN TYCHO-GAIA II: METALLICITIES, ABUNDANCES, AND PROSPECTS FOR CHEMICAL TAGGING
Andrews, J., Chanamé, J., & **Agüeros, M.** 2018, *MNRAS*, 473, 5393
- [12] WIDE BINARIES IN TYCHO-GAIA: SEARCH METHOD AND THE DISTRIBUTION OF ORBITAL SEPARATIONS
Andrews, J., Chanamé, J., & **Agüeros, M.** 2017, *MNRAS*, 472, 675
- [13] 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
- [14] POKING THE BEEHIVE FROM SPACE: K2 ROTATION PERIODS FOR PRAESEPE
^sDouglas, S., **Agüeros, M.**, Covey, K., Kraus, A. 2017, *ApJ*, 842, 83
- [15] 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
- [16] 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
- [17] 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>
- [18] 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
- [19] 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
- [20] K2 ROTATION PERIODS FOR LOW-MASS HYADS AND THE IMPLICATIONS FOR GYROCHRONOLOGY
^sDouglas, S., **Agüeros, M.**, Covey, K., et al. 2016, *ApJ*, 822, 47
- [21] 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
- [22] 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
- [23] ULTRACOOL WHITE DWARFS AND THE AGE OF THE GALACTIC DISC
Gianninas, A., [4 authors], ^sAndrews, J., Canton, P., **Agüeros, M.** 2015, *MNRAS*, 449, 3966
- [24] THE MASS DISTRIBUTION OF COMPANIONS TO LOW-MASS WHITE DWARFS
^sAndrews, J., ^sPrice-Whelan, A., & **Agüeros, M.** 2014, *ApJL*, 797, L32
- [25] 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
- [26] 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

- [27] 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
- [28] THE RUNAWAY BINARY LP400–22 IS LEAVING THE GALAXY
 Kilic, M., [4 authors], **Agüeros, M.**, et al. 2013, *MNRAS*, 434, 3582
- [29] 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
- [30] 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
- [31] THE PTF PHOTOMETRIC CATALOG 1.0
 Ofek, E., [13 authors], **Agüeros, M.**, et al. 2012, *PASP*, 124, 854
- [32] 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
- [33] THE PTF PHOTOMETRIC CALIBRATION
 Ofek, E., [13 authors], **Agüeros, M.**, et al. 2012, *PASP*, 124, 62
- [34] CATAclysmic VARIABLES FROM THE SDSS. VIII. THE FINAL YEAR (2007-2008)
 Szkody, P., [8 authors], **Agüeros, M.**, et al. 2011, *AJ*, 142, 181
- [35] 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
- [36] NO CONFIRMED NEW ISOLATED NEUTRON STARS IN THE SDSS DATA RELEASE 4
Agüeros, M., Posselt, B., Anderson, S., et al. 2011, *AJ*, 141, 176
- [37] PTF10NVG: AN OUTBURSTING CLASS I PROTOSTAR IN THE PELICAN/NORTH AMERICAN NEBULA
 Covey, K., [14 authors], **Agüeros, M.**, et al. 2011, *AJ*, 141, 40
- [38] 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
- [39] 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
- [40] NO NEUTRON STAR COMPANION TO THE LOWEST MASS SDSS WHITE DWARF
Agüeros, M., Heinke, C., Camilo, F., et al. 2009, *ApJL*, 700, L123
- [41] THE SEVENTH DATA RELEASE OF THE SDSS
 Abazajian, K., Adelman-McCarthy, J., **Agüeros, M.**, et al. 2009, *ApJS*, 182, 543
- [42] 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
- [43] X-RAY EMITTING STARS IDENTIFIED FROM THE RASS AND THE SDSS
Agüeros, M., Anderson, S., Covey, K., et al. 2009, *ApJS*, 181, 444
- [44] 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

- [45] 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.
- [46] THE COINCIDENCE OF NUCLEAR STAR CLUSTERS AND ACTIVE GALACTIC NUCLEI
Seth, A., **Agüeros, M.**, ^sLee, D., ^sBasu-Zych, A. 2008, *ApJ*, 678, 116
- [47] THE SIXTH DATA RELEASE OF THE SDSS
Adelman-McCarthy, J., **Agüeros, M.**, Allam, S., et al. 2008, *ApJS*, 175, 297
- [48] 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
- [49] THE FIFTH DATA RELEASE OF THE SDSS
Adelman-McCarthy, J., **Agüeros, M.**, Allam, S., et al. 2007, *ApJS*, 172, 634
- [50] CATAclySMIC VARIABLES FROM SDSS VI. THE SIXTH YEAR (2005)
Szkody, P., [5 authors], **Agüeros, M.**, et al. 2007, *AJ*, 134, 185
- [51] 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
- [52] 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
- [53] 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
- [54] CATAclySMIC VARIABLES FROM THE SDSS V. THE FIFTH YEAR (2004)
Szkody, P., Henden, A., **Agüeros, M.**, et al. 2006, *AJ*, 131, 973
- [55] THE FOURTH DATA RELEASE OF THE SDSS
Adelman-McCarthy, J., **Agüeros, M.**, Allam, S., et al. 2006, *ApJS*, 162, 38
- [56] THE ULTRAVIOLET, OPTICAL, AND INFRARED PROPERTIES OF SDSS SOURCES DETECTED BY GALEX
Agüeros, M., Ivezić, Ž., Covey, K., et al. 2005, *AJ*, 130, 1022
- [57] 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
- [58] CATAclySMIC VARIABLES FROM THE SDSS IV. THE FOURTH YEAR (2003)
Szkody, P., [6 authors], **Agüeros, M.**, et al. 2005, *AJ*, 129, 2386
- [59] THE THIRD DATA RELEASE OF THE SDSS
Abazajian, K., Adelman-McCarthy, J., **Agüeros, M.**, et al. 2005, *AJ*, 129, 1755
- [60] SDSS IMAGING OF LOW GALACTIC LATITUDE FIELDS: TECHNICAL SUMMARY AND DATA RELEASE
Finkbeiner, D., [20 authors], **Agüeros, M.**, et al. 2004, *AJ*, 128, 2577
- [61] CATAclySMIC VARIABLES FROM THE SDSS III. THE THIRD YEAR
Szkody, P., [5 authors], **Agüeros, M.**, et al. 2004, *AJ*, 128, 1882

publications
continued

- [62] THE SECOND DATA RELEASE OF THE SDSS
Abazajian, K., Adelman-McCarthy, J., **Agüeros, M.**, et al. 2004, *AJ*, 128, 502
- [63] 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
- [64] THE FIRST DATA RELEASE OF THE SDSS
Abazajian, K., Adelman-McCarthy, J., **Agüeros, M.**, et al. 2003, *AJ*, 126, 2081
- [65] AN X-RAY IMAGE OF THE COMPOSITE SNR G16.7+0.1
Helfand, D., **Agüeros, M.**, & Gotthelf, E. 2003, *ApJ*, 592, 941
- [66] CATAclysmic VARIABLES FROM THE SDSS I. THE FIRST RESULTS
Szkody, P., Anderson, S., **Agüeros, M.**, et al. 2002, *AJ*, 123, 430
- [67] THE BULK EXPANSION OF SNR CASSIOPEIA A AT 151 MHz
Agüeros, M. & Green, D. 1999, *MNRAS*, 305, 957

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

research grants ≈\$2.0M as PI since 2009	<p>NO LONGER ON THE MARGINS: COMPLETING THE ROTATIONAL CENSUS OF LOW-MASS HYADS WITH TESS NASA: <i>Transiting Exoplanet Survey Satellite (TESS)</i> Cycle 1 Guest Investigator Program Award period: 03/01/2019-02/29/2020 \$50,000</p> <p>A UV SPECTROSCOPIC SNAPSHOT SURVEY OF LOW-MASS STARS IN THE HYADES Space Telescope Science Institute (STScI): <i>Hubble Space Telescope (HST)</i> Cycle 25 Snapshot Program Award period: 01/01/2019-12/31/2021 \$160,361</p> <p>A DECADE ON, WHICH BEES ARE STILL BUZZING? MONITORING STARSPOT EVOLUTION IN PRAESEPE FROM PTF TO K2 NASA: <i>K2</i> Cycle 6 Guest Observer Program Award period: 01/01/2019-12/31/2019 \$50,000</p> <p>A UV SPECTROSCOPIC SURVEY OF PERIODIC M DWARFS IN THE HYADES STScI: <i>HST</i> Cycle 25 Guest Observer Program Award period: 08/01/2018-07/31/2021 \$171,161</p> <p>WHY WE SHOULD KEEP POKING THE BEEHIVE: SIMULTANEOUS K2 AND SPECTROSCOPIC OBSERVATIONS OF PRAESEPE NASA: <i>K2</i> Cycle 5 Guest Observer Program Award period: 01/22/2018-01/21/2019 \$50,000</p> <p>HOW THE OTHER HALF LIVES: COMPLETING THE K2 CENSUS OF LOW-MASS HYADS NASA: <i>K2</i> Cycle 4 Guest Observer Program Award period: 02/02/2017-09/30/2018 \$40,000</p> <p>A SNAPSHOT SURVEY OF THE HYADES: TESTING MODELS FOR MAGNETIC SATURATION NASA: <i>XMM-Newton</i> AO-15 Guest Observer Program Award period: 01/03/2017-01/02/2019 \$98,262</p> <p>THE MASSIVE COMPANIONS OF LOW-MASS WHITE DWARFS Smithsonian Astrophysical Observatory (SAO): <i>Chandra</i> Cycle 17 General Observer Program Award period: 01/29/2016-01/28/2018 \$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 \$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 \$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 \$35,000</p>	<p>2018</p> <p>2017</p> <p>2018</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>
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research grants <i>continued</i>	<p>DEEP IMAGING OF M37, A BETTER HYADES SAO: <i>Chandra</i> 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: <i>Chandra</i> Cycle 12 General Observer Program Award period: 03/03/2011-03/02/2014 \$23,182</p> <p>THE COOLEST X-RAY EMITTING WDS? <i>XMM-Newton</i> AO-8 Guest Observer Program Award period: 07/17/2009-07/16/2011 \$56,900</p> <p>THE COOLEST X-RAY EMITTING WDS? SAO: <i>Chandra</i> Cycle 9 General Observer Program Award period: 01/01/2008-01/31/2010 \$26,584</p> <p>XMM-NEWTON SPECTRAL ENERGY DISTRIBUTION OF A NEW CANDIDATE ISOLATED NEUTRON STAR NASA: <i>XMM-Newton</i> AO-6 Guest Observer Program Award period: 08/15/2007-08/14/2009 \$27,016</p> <p>LIFTING THE VEIL: A MULTIWAVELENGTH PICTURE OF THE GALACTIC PLANE AND OF ITS STELLAR REMNANTS NSF: AAPF program Award period: 10/01/2006-09/30/2010 \$206,000</p> <p>FINDING ISOLATED NEUTRON STARS IN THE ROSAT AND SDSS SURVEYS NASA: Harriett G. Jenkins Pre-doctoral Fellowship program Award period: 07/01/2003-06/30/2006 Award: \$106,449</p>	<p>2011</p> <p>2010</p> <p>2009</p> <p>2008</p> <p>2007</p> <p>2006</p> <p>2003</p>
other grants >\$1.4M as PI since 2009	<p>departmental initiatives</p> <p>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 \$50,000</p> <p>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 \$25,000</p> <p>COLUMBIA'S PARTICIPATION IN THE CORNELL SPACE GRANT CONSORTIUM NASA New York Space Grant Consortium Total award period: 05/01/2012-04/30/2019 Total award: \$208,820</p>	<p>2016</p> <p>2013</p> <p>2012-present</p>

other grants <i>continued</i>	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 \$403,210	
	A RESEARCH-INTENSIVE PREPARATION FOR THE TRANSITION TO GRADUATE SCHOOL: THE BRIDGE TO THE PH.D. IN THE NATURAL SCIENCES PROGRAM	2010
	NSF: unsolicited proposal Award period: 10/01/2010-09/30/2013 \$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	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
	Kavli Frontiers of Sciences Fellow	2016
	NSF Presidential Early Career Award for Scientists and Engineers (PECASE)	2016
	Columbia University Distinguished 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	<i>scheduled</i>	
	[1] Colloquium, Institute for Astronomy, University of Hawaii, Oct. 30, 2019	
	[2] Colloquium, Pontificia Universidad Católica, Santiago, Chile, May 28, 2019	
	<i>given</i>	
	[3] Colloquium, Dartmouth College, May 3, 2019	
	[4] Colloquium, University of Utah, Apr. 18, 2019	
	[5] University of Virginia/National Radio Astronomy Observatory Joint Colloquium, Nov. 29, 2018	
	[6] Colloquium, Indiana University, Bloomington, Nov. 13, 2018	
	[7] Colloquium, University of California, Santa Cruz, Nov. 7, 2018	
	[8] Invited talk, SACNAS National Conference, San Antonio, TX, Oct. 12, 2018	
	[9] Invited seminar, Observatoire astronomique de Strasbourg, Strasbourg, France, Oct. 5, 2018	
	[10] Contributed plenary talk, 20 th Cambridge Workshop on Cool Stars, Boston, MA, Aug. 1, 2018	
	[11] Invited seminar, Kazan Federal University, Kazan, Russia, Jun. 15, 2018	
	[12] Colloquium, University of North Carolina, Chapel Hill, Apr. 23, 2018	
	[13] Colloquium, University of Michigan, Apr. 12, 2018	
	[14] Invited seminar, University of Exeter, Exeter, UK, Mar. 14, 2018	
	[15] Invited seminar, Rider University, Feb. 23, 2018	
[16] Contributed talk, "Dwarf Stars and Clusters with K2" workshop, Boston, MA, Jan. 16, 2018		

**colloquia
& talks**
continued

- [17] Invited seminar, Vanderbilt University, Dec. 8, 2017
- [18] Joint Astrophysics Colloquium, McGill University, Montreal, Canada, Nov. 28, 2017
- [19] Five College Astronomy Department Colloquium, University of Massachusetts, Sep. 28, 2017
- [20] Contributed talk, “ages²: Taking Stellar Ages to the Next Power” meeting, Elba, Italy, Sep. 19, 2017
- [21] Colloquium, Pontificia Universidad Católica, Santiago, Chile, May 23, 2017
- [22] Contributed talk, Latin American XV Regional IAU Meeting, Cartagena, Colombia, Oct. 6, 2016
- [23] Colloquium, University of Texas, Aug. 30, 2016
- [24] Colloquium, Pennsylvania State University, Apr. 20, 2016
- [25] Invited seminar, Imperial College London, London, UK, Oct. 7, 2015
- [26] Invited talk, “Celebrating 10 Years of Diversity in Astronomy With Pre-MAP” special session, AAS meeting 225, Seattle, WA, Jan. 6, 2015
- [27] Colloquium, University of Rochester, Mar. 31, 2014
- [28] Contributed talk, “What Asteroseismology Has to Offer to Astrophysics,” International Francqui Symposium (in honor of Conny Aerts), Brussels, Belgium, Dec. 4, 2013
- [29] Invited talk, Tri-State Astronomy Conference, CUNY Graduate Center, NY, NY, Sep. 27, 2013
- [30] Invited talk, Graduate Education in Physics Conference, College Park, MD, Feb. 1, 2013
- [31] 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
- [32] Invited talk, SACNAS National Conference, Seattle, WA, Oct. 12, 2012
- [33] 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
- [34] Colloquium, Yale University, Apr. 5, 2012
- [35] Colloquium, University of Toronto, Mar. 23, 2012
- [36] Invited talk, SACNAS National Conference, San José, CA, Oct. 28, 2011
- [37] Colloquium, Pennsylvania State University, Sep. 28, 2011
- [38] Invited talk, NSBP/National Society of Hispanic Physicists (NSHP) Joint Annual Conference, Austin, TX, Sep. 24, 2011
- [39] Invited talk, PTF Collaboration Meeting, Santa Barbara, CA, May 27, 2011
- [40] Steward Observatory/National Optical Astronomy Observatory Joint Colloquium, Apr. 28, 2011
- [41] Invited seminar, Rutgers University, Apr. 22, 2011
- [42] Cape Town Astronomy & Cosmology Colloquium, South African Astronomical Observatory, Cape Town, South Africa, Apr. 19, 2011
- [43] Contributed talk, 2nd Middle-East and Africa Regional IAU Meeting, Cape Town, South Africa, Apr. 14, 2011
- [44] Invited seminar, Center for Interdisciplinary Exploration and Research in Astronomy, Northwestern University, Apr. 5, 2011
- [45] Colloquium, University of Wisconsin-Milwaukee, Apr. 1, 2011
- [46] Colloquium, Columbia University, May 27, 2009
- [47] Invited seminar, College of Staten Island, May 6, 2009
- [48] Contributed talk, NSF Astronomy & Astrophysics Postdoctoral Fellows Symposium, Long Beach, CA, Jan. 4, 2009
- [49] Invited talk, SACNAS National Conference, Salt Lake City, UT, Oct. 10, 2008
- [50] Contributed talk, NSF Astronomy & Astrophysics Postdoctoral Fellows Symposium, Austin, TX, Jan. 6, 2008
- [51] Contributed talk, NSF Astronomy & Astrophysics Postdoctoral Fellows Symposium, Seattle, WA, Jan. 6, 2007
- [52] Colloquium, Kyoto University, Kyoto, Japan, Dec. 5, 2006
- [53] Colloquium, American Museum of Natural History, Nov. 6, 2006
- [54] Invited talk, SACNAS National Conference, Tampa, FL, Oct. 27, 2006
- [55] Colloquium, Vanderbilt University, Feb. 2, 2006
- [56] Invited talk, NSBP/NSHP Joint Annual Conference, Orlando, FL, Feb. 19, 2005
- [57] Invited talk, SACNAS National Conference, Austin, TX, Oct. 23, 2004
- [58] Invited talk, NSBP/NSHP Joint Annual Conference, Washington, DC, Feb. 20, 2004

meetings organized	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 th 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–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 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		
“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/2If6Cp1		
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/2jVLz00		
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 \$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 \$25,000		
ENHANCING THE ROLE OF PHYSICS AND OF THE NSHP AT THE SACNAS NATIONAL CONFERENCE	2012	
NSF: unsolicited proposal (PI: J. Draayer; served as co-PI) Award period: 07/15/2012-06/30/2015 \$75,000		

grants for meetings <i>continued</i>	THE 2011 JOINT ANNUAL CONFERENCE OF THE NSBP/NSHP NSF: unsolicited proposal (PI: J. Draayer) Award period: 06/15/2011-05/31/2012 \$299,380	2011
service to university	NASA NEW YORK SPACE GRANT CONSORTIUM REPRESENTATIVE, DEPARTMENT OF ASTRONOMY	2012-present
	OUTREACH DIRECTOR, DEPARTMENT OF ASTRONOMY Oversee departmental outreach efforts, which reach ≈ 3000 people a year. See http://outreach.astro.columbia.edu	2010-present
	FOUNDING DIRECTOR, BRIDGE TO PH.D. PROGRAM IN STEM Lead Columbia program that prepares underrepresented post-baccalaureates for transition into Ph.D. programs. See http://bitly.com/cubridge	2008-present
	PROPOSAL REVIEWER, OFFICE OF GLOBAL PROGRAMS & FELLOWSHIPS Reviewed proposals for Kellett Fellowship and Goldwater Scholarship.	
service to discipline	CHAIR, EXPERT PANEL: SCIENCES OF THE EARTH AND SPACE, RESEARCH FOUNDATION – FLANDERS (BELGIUM) Chair panel evaluating proposals to the Flemish equivalent of the NSF.	2019
	TRUSTEE, AMERICAN ASTRONOMICAL SOCIETY (AAS) Elected member of the AAS's board of trustees, its governing body.	2017-present
	MEMBER, LSST INTERNATIONAL CONTRIBUTORS COMMITTEE Elected member of the LSST Corporation's committee responsible for managing international partnerships.	2017-present
	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.	2016-present
	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.	2016
	MEMBER, EXPERT PANEL: SCIENCES OF THE EARTH AND SPACE, RESEARCH FOUNDATION – FLANDERS (BELGIUM) Served on panel evaluating proposals to the Flemish equivalent of the NSF.	2015-2018
	MEMBER, COMMUNITY SCIENCE ADVISORY COMMITTEE, ZWICKY TRANSIENT FACILITY (ZTF) Advise the ZTF PI Shri Kulkarni on matters of importance to the US community.	2014-present
	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; NSF GK-12, AAPF, and Astronomy & Astrophysics Research Grants programs; NSF facilities management competition; NASA Post-doctoral Program; MIT and Columbia University Press; Sloan Foundation.	
	SCIENTIFIC REFEREE <i>Astronomy & Astrophysics, MNRAS, and PASP.</i>	