

RACHEL B. PATERNO-MAHLER
Curriculum Vitae

Mailing Address

W.M. Keck Science Center
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Office: Center Court E7**E-mail:** rachel.paterno-mahler@kecksci.claremont.edu**Web:** www.rpmastronomy.com**Current Position**

W.M. KECK SCIENCE CENTER
Claremont, CA, USA
Visiting Assistant Professor

July 2019 – Present

Highlights

Postdoctoral Researcher, 3+ years
Teaching Experience, Lead Instructor, Five terms
Teaching Experience, TA Discussion/Lab Instructor, Seven terms
Publications: 24 (4 first author)
Invited Seminars: 4 — Contributed Conference Talks: 4
PI Observing Time Awarded: 190 ks on *Swift*

Education

BOSTON UNIVERSITY
Boston MA, USA
Ph.D. in Astrophysics

Sep. 2010 – Jul. 2015

Dissertation: “Radio AGN in Galaxy Clusters: Feedback, Merger Signatures, and Cluster Tracers”
Thesis Advisor: Elizabeth Blanton

UNIVERSITY OF CALIFORNIA, IRVINE
Irvine CA, USA
M.S. in Physics

Sep. 2007 – Dec. 2009

Thesis: “Using Time Delays to Constrain Lens Masses”
Thesis Advisor: Manoj Kaplinghat

POMONA COLLEGE
Claremont CA, USA

Sep. 2003 – May 2007

B.A. in Physics (Astronomy Concentration)
Thesis: “Determining the AGN Fraction of Galaxy Groups”
Thesis Advisors: John Mulchaey, Philip Choi

Honors

AAS Travel Grant, 2018, \$2371.91
GAANN Fellowship, 2007-2009
Travel Grant to Hawaii for the Summer AAS Meeting, 2007
The Frank P. Brackett and Davida W. Brackett Prize in Astronomy, 2006
Travel Grant to Washington D.C. for the Winter AAS Meeting, 2006
Summer Undergraduate Research Program Grant, 2005
National Society of Collegiate Scholars, 2003

Research Interests

My research focuses on bent, double-lobed radio sources and the role they play in galaxy clusters, as well as the physics of the intracluster medium. Specifically, I am interested in how the intracluster medium interacts with the active galactic nucleus at the center of the cluster, and vice versa, as well as using these sources as tracers for high-redshift ($z > 0.7$) galaxy clusters. I use data from multiple wavelength regimes, including radio, optical, infrared, and X-ray. I am also interested in modeling the mass distribution of these clusters using strong lensing.

- Postdoctoral Experience** UNIVERSITY OF CALIFORNIA, IRVINE - POSTDOCTORAL RESEARCHER Sep. 2017 – Aug. 2018
Irvine, CA, USA
Supervisor: David Buote
- UNIVERSITY OF MICHIGAN - POSTDOCTORAL RESEARCHER Sep. 2015 – Aug. 2017
Ann Arbor, MI, USA
Supervisor: Keren Sharon
- Research Experience** GRADUATE RESEARCH ASSISTANT, BOSTON UNIVERSITY Oct. 2010 – Aug. 2015
Supervisor: Elizabeth Blanton
- GRADUATE RESEARCH ASSISTANT, HARVARD-SMITHSONIAN CENTER FOR ASTROPHYSICS May 2013-Aug. 2013
Supervisor: Scott Randall
- GRADUATE RESEARCH ASSISTANT, UC IRVINE Jun. 2008 – Dec. 2009
Supervisor: Manoj Kaplinghat
- SUMMER RESEARCH ASSISTANT, CARNEGIE OBSERVATORIES May 2006 – Jul. 2006
Supervisor: John Mulchaey
- SUMMER RESEARCH ASSISTANT, POMONA COLLEGE May 2005 – Aug. 2005
Supervisor: Alma Zook
- Teaching** VISITING ASSISTANT PROFESSOR, KECK SCIENCE CENTER - CLAREMONT, CA Fall 2019 - present
Astro 66: Elementary Astronomy (with lab component)
Phys 30L: Lab for the first semester of introductory physics for life science major series
Phys 31L: Lecture and lab for the second semester of introductory physics for life science major series
- VISITING PROFESSOR, WEST LOS ANGELES COLLEGE - CULVER CITY, CA Fall 2018 - Spring 2019
Instructor of record for the class “Elementary Astronomy”
- UC IRVINE COSMOS Summer 2018
One of two instructors of record for the UC Irvine COSMOS program, Cluster 7: The Big Bang and the Subatomic world. Led the lectures pertaining to the Big Bang and cosmology.
- GUEST LECTURER, UNIVERSITY OF MICHIGAN 2017
Gave guest lectures to the introductory astronomy classes on topics ranging from my own research to covering the normal lectures on exoplanets and spectra.
- TEACHING FELLOW, BOSTON UNIVERSITY Spring 2013
Led discussion for introductory course titled “Cosmology”
- TEACHING FELLOW, BOSTON UNIVERSITY Fall 2010 - Fall 2011
Led lab exercises for introductory course titled “Stars and Galaxies”
Led lab exercises for the summer session courses “Introduction to the Solar System” and “Stars and Galaxies”
Led discussion for introductory course titled “Cosmology”
Led lab exercises for introductory course titled “Introduction to the Solar System”
- VISITING PROFESSOR, SANTA ANA COLLEGE - SANTA ANA, CA Spring 2010
Instructor of record for the class “Introduction to the Solar System”

TEACHING ASSISTANT, SUMMER SCIENCE PROGRAM Summer 2009, Summer 2007
Teaching assistant at an astronomy summer program for gifted high school students

TEACHING ASSISTANT, UC IRVINE Winter 2008 - Spring 2008
Led lab and discussion for introductory physics class for physicists and engineers
Led discussion for introductory class titled "Physics of Athletics"

MENTOR, POMONA COLLEGE Fall 2006
Held weekly office hours during which the students in the introductory astronomy class could come ask questions

LAB ASSISTANT, POMONA COLLEGE Spring 2005 - Winter 2006
Led observational astronomy lab for the introductory astronomy course
Lab assistant for the class "Atomic and Nuclear Physics"

GRADER, POMONA COLLEGE Fall 2004 - Spring 2005
Graded homework for the introductory physics course

Broader Impacts

SKYPE A SCIENTIST 2019-present
Skype into classrooms across the country to discuss what it's like to be a scientist and about my research.

ADMISSIONS COMMITTEE, THE SUMMER SCIENCE PROGRAM 2016 - present
Evaluate student applications for admission to The Summer Science Program.

FIRST FRIDAY, BOISE STATE UNIVERSITY August 2019
Gave a public talk on my research as part of the BSU First Friday public lecture series and was also interviewed by the radio program *Idaho Matters* as part of their Science Friday series.

SUMMER SCIENCE PROGRAM 60TH CELEBRATION July 2018
Led the panel entitled: Women in STEM: Challenges Overcome, a roundtable discussion about day-to-day challenges, how those challenges have changed over time, and ideas for making STEM more inclusive and equitable.

MARLBOROUGH SCHOOL 2018
Spoke to the Stars, Time, Astrophysics, Relativity (STAR) Club and the Honors Research class about what it means to be a woman in science and what my day to day life is like.

PARTICIPANT, NEXTPROF SCIENCE, UNIVERSITY OF MICHIGAN May 2017
Workshop designed for scientists with a demonstrated commitment to diversity. By application.

UNIVERSITY OF MICHIGAN ASTRONOMY LADIES LUNCH ORGANIZER September 2015 - June 2017
Monthly meeting of the female postdocs to check in with each other and discuss issues such as job applications and work-life balance.

BU WOMEN IN ASTRONOMY LUNCH ASSOCIATION May 2015 - August 2015
Co-founder. Informal monthly lunch meetings open to all women in the department. Each meeting is loosely centered around a topic of relevance to women in STEM.

TRANSIT OF VENUS PUBLIC EVENT June 2012
Spoke at Venus transit public viewing organized by Boston University Astronomy Department

Professional Service

JOURNAL REFEREE (*MNRAS*, *ApJ*)

NASA 2ADAP18 PROPOSAL REVIEW PANEL 2019

NASA/*Chandra* PROPOSAL REVIEW PANEL 2018

UNIVERSITY OF MICHIGAN COLLOQUIUM SERIES CO-CHAIR 2016 - 2017

NASA/*Swift* PROPOSAL REVIEW PANEL 2015

Professional Memberships American Astronomical Society
High Energy Astrophysics Division, American Astronomical Society

Observing Experience Optical Imaging: DCT 4.3 m, Pomona College TMO 1 m
Optical Spectroscopy: Magellan 6.5 m (MagE)

Telescope Time Awarded *HST* 2019
RELICS: Unveiling the Most Distant Lensed Arc at z 10, Cycle 27, GO-15920, 6 orbits (as Co-I)

Chandra 2019
A $z = 1.8$ Cluster in the Clusters Occupied by Bent Radio AGN (COBRA) Survey, Cycle 21, 21800500, 100 ks, 2 *HST* orbits (as Co-I)

Swift Winter 2017
Awarded 190.1 ks of time as PI to observe a subset of cluster candidates in the COBRA Survey to confirm that they are clusters and to measure their properties using scaling relationships.

Grants HST GO-15920, \$25K (AS CO-I) 2019

Students Advised KAITLYN SHAVELLE Fall 2019 – present
Mentor for her Honors Research project. She will be expanding the COBRA search away from using the AGN as the center.
Currently a senior at Marlborough School in Los Angeles, CA.

KEVIN SHIMBO Fall 2019 – present
I am the second reader for his undergraduate thesis exploring the sputtering of molecules from an exploding star.
Currently an undergraduate student in physics at Pitzer College in Claremont, CA.

References PROFESSOR ELIZABETH BELL
Department of Science
West Los Angeles College
9000 Overland Avenue
Culver City, CA 90230
(310) 287-4585, bellea@wlaac.edu

PROFESSOR ELIZABETH BLANTON
Department of Astronomy
Boston University
725 Commonwealth Avenue
Boston, MA 02215
(617) 353-2633, eblanton@bu.edu

PROFESSOR KEREN SHARON
Department of Astronomy
University of Michigan
1085 South University Avenue
Ann Arbor, MI 48109
(734) 936-2079, kerens@umich.edu

**Refereed
Publications**

- A24 RELICS: A VERY LARGE ($\theta_E \sim 40''$) CLUSTER LENS – RXCJ0032.1 + 1808
Acebron, A., Zitrin, A., Coe, D., Mahler, G., Sharon, K., [Paterno-Mahler, R., as part of the RELICS collaboration]. *ApJ*, Submitted. 1912.02702
- A23 RELICS: SPECTROSCOPY OF GRAVITATIONALLY-LENSED $z \simeq 2$ REIONIZATION-ERA ANALOGS AND IMPLICATIONS FOR CIII] DETECTIONS AT $z > 6$
Mainali, R., Stark, D. P., Tang, M., Chevallard, J., Charlot, S., Sharon, K., Coe, D., Salmon, B., Bradley, L. D., Johnson, T. L., Frye, B., Avila, R. J., Ogaz, S., Zitrin, A., Bradac, M., Lemaux, B. C., Mahler, G., Paterno-Mahler, R., Strait, V., Andrade-Santos, F. *MNRAS*, Submitted. arXiv:1909.09212
- A22 STRONG LENS MODELS FOR 37 CLUSTERS OF GALAXIES FROM THE SDSS GIANT ARCS SURVEY
Sharon, K., Bayliss, M. B., Dahle, H., Dunham, S. J., Florian, M. K., Gladders, M. D., Johnson, T. L., Mahler, G., Paterno-Mahler, R., Rigby, J. R., Whitaker, K. E., Akhshik, M., Koester, B. P., Murray, K., & Wuyts, E. *ApJS*, Accepted. arXiv:1904.05940
- A21 STELLAR PROPERTIES OF $z \sim 8$ GALAXIES IN THE REIONIZATION LENSING CLUSTER SURVEY
Strait, V., Bradac, M., Coe, D., Bradley, L., Salmon, B., [Paterno-Mahler, R., as part of the RELICS collaboration]. *ApJ*, Accepted. arXiv:1905.09295
- A20 THE HIGH-REDSHIFT CLUSTERS OCCUPIED BY BENT RADIO AGN (COBRA) SURVEY: FOLLOW-UP OPTICAL IMAGING
Golden-Marx, E., Blanton, E. L., Paterno-Mahler, R., Brodwin, M., Ashby, M. L. N., Lemaux, B. C., Lubin, L. M., Gal, R. R., & Tomczak, A. R. *ApJ*, 887, 50
- A19 AN X-RAY DETECTION OF STAR FORMATION IN A HIGHLY MAGNIFIED GIANT ARC
Bayliss, M. B., McDonald, M., Sharon, K., Gladders, M. D., Florian, M., Chisolm, J., Dahle, H., Mahler, G., Paterno-Mahler, R., Rigby, J. R., Rivera-Thorsen, E., Whitaker, K. E., Allen, S., Benson, B. A., Bleem, L. E., Brodwin, M., Canning, R. E. A., Chiu, I., Hlavacek-Larrondo, J., Khullar, G., Reichardt, C., & Viera, J. D. *Nature Astronomy*, Oct. 2019, 465 arXiv:1910.05343
- A18 RELICS: REIONIZATION LENSING CLUSTER SURVEY
Coe, D., Salmon, B., Bradac, M., Bradley, L., Sharon, K., Zitrin, A., [Paterno-Mahler, R., as part of the RELICS collaboration]. *ApJ*, 884, 85
- A17 RELICS: HIGH-RESOLUTION CONSTRAINTS ON THE INNER MASS DISTRIBUTION OF THE $z=0.83$ MERGING CLUSTER RXJ0152.7–1357 FROM STRONG LENSING
Acebron, A., Alon, M., Zitrin, A., Mahler, G., [Paterno-Mahler, R., as part of the RELICS collaboration]. *ApJ*, 874, 132
- A16 RELICS: STRONG LENSING ANALYSIS OF MACS J0417.5–1154 AND PREDICTIONS FOR OBSERVING THE MAGNIFIED HIGH-REDSHIFT UNIVERSE WITH JWST
Mahler, G., Sharon, K., Fox, C., Jauzac, M., Strait, V., Edge, A., [Paterno-Mahler, R., as part of the RELICS collaboration]. *ApJ*, 873, 96
- A15 A CANDIDATE $z \sim 10$ GALAXY STRONGLY LENSED INTO A SPATIALLY RESOLVED ARC
Salmon, B., Coe, D., Bradley, L., Bradač, M., Strait, V., Paterno-Mahler, R., Huang, K-H., Oesch, P., Zitrin, A., and the RELICS Collaboration. 2018, *ApJ*, 864L, 22
- A14 RELICS: A STRONG LENS MODEL FOR SPT-CLJ0615–5746, A $z = 0.972$ CLUSTER
Paterno-Mahler, R., Sharon, K., Coe, D., Cerny, C., Johnson, T. L., Schrabback, T., and the RELICS Collaboration. 2018, *ApJ*, 863, 154
- A13 RELICS: STRONG LENSING ANALYSIS OF THE GALAXY CLUSTERS ABELL S295, ABELL 697, MACS J0025.4-1222, AND MACS J0159.8-0849
Cibirka, N., Acebron, A., Zitrin, A., Coe, D., [Paterno-Mahler, R., as part of the RELICS collaboration]. 2018, *ApJ*, 863, 145
- A12 RELICS: STRONG LENS MODELS FOR FIVE GALAXY CLUSTERS FROM THE REIONIZATION LENSING CLUSTER SURVEY

- Cerny, C., Sharon, K., [**Paterno-Mahler, R.**, as part of the RELICS collaboration]. 2018, *ApJ*, 859, 159
- A11 RELICS: STRONG-LENSING ANALYSIS OF THE MASSIVE CLUSTERS MACS J0308.9+2645 AND PLCK G171.9-40.7
Acebron, A., Cibirka, N., Zitrin, A., C., Coe, D., [**Paterno-Mahler, R.**, as part of the RELICS collaboration]. 2018, *ApJ*, 858, 42
- A10 THE MAGELLAN EVOLUTION OF GALAXIES SPECTROSCOPIC AND ULTRAVIOLET REFERENCE ATLAS (MEGASAURA) II: STACKED SPECTRA
Rigby, J. R., Bayliss, M. B., Chisholm, J., Bordoloi, R., Sharon, K., Gladders, M. D., Johnson, T., **Paterno-Mahler, R.**, Wuyts, E., Dahle, H., & Acharyya, A. 2018, *ApJ*, 853, 87
- A9 THE MAGELLAN EVOLUTION OF GALAXIES SPECTROSCOPIC AND ULTRAVIOLET REFERENCE ATLAS (MEGASAURA) I: THE SAMPLE AND THE SPECTRA
Rigby, J. R., Bayliss, M. B., Sharon, K., Gladders, M. D., Chisholm, J., Dahle, H., Johnson, T., **Paterno-Mahler, R.**, Wuyts, E., & Kelson, D. D. 2018, *AJ*, 155, 104
- A8 THE REIONIZATION LENSING CLUSTER SURVEY (RELICS) AND THE BRIGHTEST HIGH- z GALAXIES
Salmon, B., Coe, D., [**Paterno-Mahler, R.**, as part of the RELICS collaboration], *ApJ*, Submitted, [arXiv:1710.08930](https://arxiv.org/abs/1710.08930)
- A7 SPATIALLY RESOLVED PATCHY LYMAN- α EMISSION WITHIN THE CENTRAL KILOPARSEC OF A STRONGLY LENSED QUASAR HOST GALAXY AT $z = 2.8$
Bayliss, M. B., Sharon, K., Acharyya, A., Gladders, M. D., Rigby, J. R., Bian, F., Bordoloi, R., Runnoe, J. Dahle, H., Kewley, L., Florian, M., Johnson, T., & **Paterno-Mahler, R.** 2017 *ApJL*, 845L, 14
- A6 INITIAL RESULTS OF THE HIGH-REDSHIFT CLUSTERS OCCUPIED BY BENT RADIO AGN (COBRA) SURVEY
Paterno-Mahler, R., Blanton, E. L., Brodwin, M., Ashby, M. L. N., Golden-Marx, E., Decker, B., Wing, J. D., & Anand, G. 2017 *ApJ*, 844, 78
- A5 LENS MODEL AND TIME DELAY PREDICTIONS FOR THE SEXTUPLY LENSED QUASAR SDSS J2222+2745
Sharon, K., Bayliss, M. B., Dahle, H., Florian, M. K., Gladders, M. D., Johnson, T. L., **Paterno-Mahler, R.**, Rigby, J. R., Whitaker, K. E., & Wuyts, E. 2017 *ApJ*, 835, 5
- A4 PROBING THE OUTSKIRTS OF THE EARLY STAGE GALAXY CLUSTER MERGER A1750
Bulbul, E., Randall, S. W., Bayliss, M., Miller, E., Andrade-Santos, F., Johnson, R. E., Bautz, M., Blanton, E. L., Forman, W. R., Jones, C., **Paterno-Mahler, R.**, Murray, S. S., Sarazin, C. L., Smith, R. K., & Ezer, C. 2016 *ApJ*, 818, 131
- A3 MERGER SIGNATURES IN THE TRIPLE MERGING SYSTEM ABELL 98
Paterno-Mahler, R., Randall, S. W., Bulbul, E., Andrade-Santos, F., Blanton, E. L., Jones, C., Murray, S., & Johnson, R. E. 2014 *ApJ*, 791, 104
- A2 DEEP *Chandra* OBSERVATIONS OF THE EXTENDED GAS SLOSHING SPIRAL IN A2029
Paterno-Mahler, R., Blanton, E. L., Randall, S. W., & Clarke, T. E. 2013 *ApJ*, 590, 207
- A1 DEEP IMPACT: OBSERVATIONS FROM A WORLDWIDE EARTH-BASED CAMPAIGN
Meech, K. J., [124 authors], **Paterno-Mahler, R.**, [82 authors] 2005 *Science* 310, 265.

Seminars

- B10 GALAXY CLUSTERS: NATURES COSMIC TELESCOPES
St. Mary's College (Invited Seminar), February 2019
- B9 THE SEARCH FOR HIGH-REDSHIFT GALAXY CLUSTERS AND WHAT'S BEHIND THEM
Cal Poly Pomona (Invited Seminar), September 2018
- B8 THE SEARCH FOR HIGH-REDSHIFT GALAXY CLUSTERS AND WHAT'S BEHIND THEM
Boston University (Lunch Talk), February 2018

- B7 THE SEARCH FOR HIGH-REDSHIFT GALAXY CLUSTERS AND WHAT'S BEHIND THEM
Occidental College (Invited Seminar), February 2018
- B6 THE SEARCH FOR HIGH-REDSHIFT GALAXY CLUSTERS AND WHAT'S BEHIND THEM
UCLA (Noaz Group Meeting), August 2017
- B5 PROPERTIES OF GALAXY CLUSTERS SELECTED VIA UNIQUE TRACERS
Carnegie Observatories (Lunch Talk), April 2017
- B4 RADIO AGN IN GALAXY CLUSTERS: FEEDBACK, MERGER SIGNATURES, AND CLUSTER TRACERS
University of Michigan, Ann Arbor (Extreme Astrophysics Seminar), September 2015
- B3 RADIO AGN IN GALAXY CLUSTERS: FEEDBACK, MERGER SIGNATURES, AND CLUSTER TRACERS
University of Michigan, Ann Arbor (Extreme Astrophysics Seminar, Invited), February 2015
- B2 MERGER AND FEEDBACK SIGNATURES IN THE INTRACLUSTER MEDIUM
University of Colorado, Boulder (CASA/JILA Astrophysics Lunch Seminar), April 2014
- B1 MERGER AND FEEDBACK SIGNATURES IN THE INTRACLUSTER MEDIUM
Harvard-Smithsonian Center for Astrophysics (GCG Seminar), August 2013
- Selected Conference Presentations and Proceedings Articles**
- C20 RELICS: A STRONG LENS MODEL FOR SPT-CLJ0615–5746, A $z = 0.972$ CLUSTER
Paterno-Mahler, R., Sharon, K., Coe, D., Cerny, C., Johnson, T. L., Schrabback, T., and the RELICS Collaboration. 2020, *American Astronomical Society Meeting 235*, #127.02
- C19 POSTER: X-RAY PROPERTIES OF LENSING-SELECTED CLUSTERS
Paterno-Mahler, R., Sharon, K., Bayliss, M., McDonald, M., Gladders, M., Johnson, T. L., Dahle, H., Rigby, J. R., Whitaker, K. E., Florian, M., & Wuyts, E. *Snow Cluster 2018*
- C18 POSTER: X-RAY PROPERTIES OF LENSING-SELECTED CLUSTERS
Paterno-Mahler, R., Sharon, K., Bayliss, M., McDonald, M., Gladders, M., Johnson, T. L., Dahle, H., Rigby, J. R., Whitaker, K. E., Florian, M., & Wuyts, E. *American Astronomical Society, HEAD Meeting #16*, id.105.05
- C17 THE REIONIZATION LENSING CLUSTERS SURVEY: STRONG LENSING ANALYSIS
Paterno-Mahler, R., Sharon, K., RELICS Collaboration *Clusters 2017*
- C16 POSTER: *Swift* INITIAL CHARACTERIZATION OF A STRONG LENS CLUSTER SAMPLE
Paterno-Mahler, R., Sharon, K., Gladders, M., Bayliss, M., Johnson, T. L., Dahle, H., Rigby, J. R., Whitaker, K. E., & Florian, M. *Chandra Science for the Next Decade 2016*
- C15 *Swift* INITIAL CHARACTERIZATION OF A STRONG LENS CLUSTER SAMPLE
Paterno-Mahler, R., Sharon, K., Bayliss, M., Gladders, M., Johnson, T. L., Dahle, H., Rigby, J. R., Whitaker, K. E., & Florian, M. *Great Lakes Cosmology and Galaxies Workshop 2016*
- C14 THE HIGH-REDSHIFT CLUSTERS OCCUPIED BY BENT RADIO AGN (COBRA) SURVEY
Paterno-Mahler, R., Blanton, E. L., Wing, J. D., Ashby, M. L. N., Brodwin, M., & Golden-Marx, E. *International Astronomical Union General Assembly Meeting 29, Galaxies at High Redshift and Their Evolution Over Cosmic Time*, #2257788, Proceedings of the IAU, Volume 11, Issue S319
- C13 SLOSHING, SHOCKS, AND BUBBLES IN CLUSTERS OF GALAXIES
Blanton, E. L., **Paterno-Mahler, R.**, Randall, S. W., Clarke, T. E., Sarazin, C., McNamara, B., Golden-Marx, E., Ashby, M. L. N., Wing, J. D., Douglass, E., McDonald, M., & Brodwin, M. *International Astronomical Union General Assembly Meeting 29*, #2257563
- C12 PROBING THE OUTSKIRTS OF STRONGLY MERGING DOUBLE-CLUSTERS WITH X-RAY OBSERVATIONS
Randall, S. W., Bulbul, E., **Paterno-Mahler, R.**, Jones, C., Forman, W., Miller, E. D.,

- Murray, S. S., Sarazin, C., & Blanton, E. L. *International Astronomical Union General Assembly Meeting 29*, #2255653
- C11 EXTRAGALACTIC JETS AS PROBES OF DISTANT CLUSTERS OF GALAXIES AND THE CLUSTERS OCCUPIED BY BENT RADIO AGN (COBRA) SURVEY
Blanton, E. L., **Paterno-Mahler, R.**, Wing, J. D., Ashby, M. L. N., Golden-Marx, E., Brodwin, M., Douglass, E. M., Randall, S. W., & Clarke, T. E. 2014, *Extragalactic Jets From Every Angle*, Proceedings of the IAU Symposium No. 313 held 15-19 September 2014 on the Galápagos Islands, Ecuador, [arXiv:1411.6025](#)
- C10 RADIO GALAXIES IN GALAXY CLUSTERS: FEEDBACK, MERGER SIGNATURES, AND SIGNPOSTS
Paterno-Mahler, R., Blanton, E. L., Randall, S. W., Andrade-Santos, F., Ashby, M., Brodwin, M., Bulbul, E., Clarke, T. E., Golden-Marx, E., Johnson, R., Jones, C., Murray, S. S., & Wing, J. D. 2015. *American Astronomical Society Meeting 225*, #418.02
- C9 POSTER: OPTICAL FOLLOW-UP OBSERVATIONS FOR THE HIGH-Z COBRA (CLUSTERS OCCUPIED BY BENT RADIO AGN) SURVEY
Golden-Marx, E., Blanton, E. L., **Paterno-Mahler, R.**, Wing, J. D., Ashby, M., & Brodwin, M. *American Astronomical Society Meeting 225*, #252.21
- C8 POSTER: MERGER SIGNATURES IN THE GALAXY CLUSTER ABELL 98
Paterno-Mahler, R., Randall, S. W., Bulbul, E., Andrade-Santos, F., Jones, C., Murray, S., Blanton, E. L. & Johnson, R. E. 2014, *15 Years of Science with Chandra*, held 18-21 November 2014, Boston, MA, id.P53
- C7 A TARGETED, DISTANT CLUSTER SURVEY USING BENT, DOUBLE-LOBED RADIO SOURCES
Blanton, E. L., Wing, J. D., Ashby, M., Brodwin, M., **Paterno-Mahler, R.**, & Golden-Marx, E. 2014, *Future Directions in Galaxy Cluster Surveys*, Paris, France
- C6 POSTER: MERGER SIGNATURES IN THE GALAXY CLUSTER ABELL 98
Paterno-Mahler, R., Randall, S. W., Bulbul, E., Andrade-Santos, F., Jones, C., Murray, S., Blanton, E. L. & Johnson, R. E. 2014, *American Astronomical Society Meeting 224*, #222.02
- C5 A TARGETED, DISTANT GALAXY CLUSTER SURVEY USING BENT, DOUBLE-LOBED RADIO SOURCES
Blanton, E. L., **Paterno-Mahler, R.**, Wing, J., Ashby, M., & Brodwin, M. 2014, *American Astronomical Society Meeting 224*, #206.05
- C4 POSTER: SLOSHING IN CLUSTERS OF GALAXIES
Paterno-Mahler, R., Blanton, E. L., Randall, S. W., Clarke, T. E., Wing, J. D., Ashby, M. N., & Brodwin, M. 2013, *American Astronomical Society Meeting 221*, #243.13
- C3 AGN IN CLUSTERS OF GALAXIES: FEEDBACK, SLOSHING, AND LOBE BENDING
Blanton, E. L., Randall, S., Clarke, T., Sarazin, C., McNamara, B., Douglass, E. M., Wing, J., **Paterno-Mahler, R.**, Brodwin, M., & Ashby, M. 2012, *Half a Century of X-Ray Astronomy*, Proceedings of the conference held 17-21 September 2012 on Mykonos Island, Greece, id.63
- C2 POSTER: AGN POPULATION IN GROUPS OF GALAXIES
Paterno-Mahler, R., Mulchaey, J. & Choi, P. I. 2007, *American Astronomical Society Meeting 210*, #06.03
- C1 POSTER: VRI BLAZAR MONITORING AT THE TABLE MOUNTAIN OBSERVATORY
Zook, A. C., **Paterno-Mahler, R. B.**, & Stecklein, G. R. 2005, *American Astronomical Society Meeting 207*, #141.06