Laura B. Chomiuk

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Education:	
Ph.D. in Astronomy	2010
University of Wisconsin–Madison	
"Supernova Remnants Across the Hubble Sequence" advised by Prof.	Eric M. Wilcots
M.S. in Atmospheric & Oceanic Sciences University of Wisconsin–Madison	2006
B.A. in Astronomy and Physics Wesleyan University, High Honors in Astronomy	2003
Appointments:	
Professor, Michigan State University (MSU)	2023–Present
Associate Professor, Michigan State University (MSU)	2018-2023
Assistant Professor, MSU	2013-2018
Jansky Fellow, National Radio Astronomy Observatory (NRAO) Resident at the Harvard-Smithsonian Center for Astrophysics and Michigan State University	2010–2013
Visiting Scientist, NRAO EVLA Shared Risk Observing and Commissioning	2010
Graduate Student Researcher, University of Wisconsin–Madison and University of California–Santa Cruz	2003–2010
Awards:	
College of Natural Science Postdoctoral Mentoring Award	2023
Cottrell Scholar, Research Corporation for Science Advancement	2017 - 2020
MSU Teacher-Scholar Award	2019
Thomas H. Osgood Excellence in Teaching Award	2015, 2019
College of Natural Science Teacher-Scholar Award	2018
College of Natural Science Undergraduate Teaching Award	2018
Scialog Fellow, Research Corporation for Science Advancement	2015 - 2016
NRAO Jansky Fellowship	2010 - 2013
NSF Graduate Research Fellowship	2005 - 2008
University Scholar, Wesleyan University	1999–2003
Littell Prize in Astronomy, Wesleyan University	2003

Grant Funding (Amounts to MSU):

Bolometric Light Curves for a Large, Diverse Sample of Novae: Supersoft Sources, Shocks, and Super-Eddington Luminosity	(2023-2026)
NASA Astrophysics Data Analysis Program (co-PI w/E. Aydi)	\$437,305
Collaborative Research: Charting the Supernova-Gas-Stars Connection via a Major New VLA Survey of the Local Group NSF Astronomy & Astrophysics Research Grant (co-PI	(2022–2025)
w/ J. Dalcanton, A. Leroy, & S. Stanimirovic)	\$322,258
Combining Observations with Simulations to Decipher Shocks in Novae	(2022-2024)
NASA Hubble Fellowship (institutional host for E. Aydi)	\$271,803
MSU Discretionary Funding Initiative	(2022-2023)
MSU & NatSci	\$49,543
AGEP Supplement to	
Constraining Type Ia Supernova Progenitors via their Environments	(2022-2023)
NSF Supplement (co-PI w/ C. Harris)	\$65,453
Student Observing Support	(2022–2023)
NRAO	\$33,900
Constraining Type Ia Supernova Progenitors via their Environments	(2021-2024)
NSF Astronomy & Astrophysics Research Grant (co-PI w/ C. Harris)	\$459,239
Towards a Universal Scenario for Shock Formation in Novae	(2020-2021)
NASA/Fermi Gamma-Ray Observatory (co-PI w/ E. Aydi)	\$60,000
Understanding the Gamma-Ray Production Mechanism in Nova Shocks	(2020-2022)
NASA/NuSTAR (co-PI w/ K. Sokolovsky)	\$70,591
In Search of Shocks: Monitoring Novae with Swift	(2020-2021)
NASA/Swift Observatory (co-PI w/ E. Aydi)	\$37,900
The Progenitors of Type Ia Supernovae:	
New Insights from Radio Observations	(2019-2022)
NSF Astronomy & Astrophysics Research Grant (PI)	\$341,588
Understanding the Gamma-Ray Production Mechanism in Nova Shocks	(2018-2019)
NASA/NuSTAR (co-PI w/ K. Sokolovsky)	\$42,641
Fermi ToO Observations of Bright Galactic Novae	(2018-2019)
NASA/Fermi Gamma-Ray Observatory (co-PI w/ E. Aydi)	\$55,000
CAREER: Understanding Novae as Shock-Powered Explosions	(2018-2023)
NSF CAREER Grant (PI)	\$730,425
Rethinking the Fundamentals of Novae Research Corporation for Science Advancement (PI)	$(2017 – 2020) \\ \$100,000$
Finding AM CVn Stars in 47 Tuc	(2017-2020)
NASA/Hubble Space Telescope (coI w/PI T. Maccarone)	\$9,843

Identifying the Nature of a Peculiar Globular Cluster X-ray Binary NASA/Chandra X-ray Observatory (coI w/PI V. Tudor)	(2017-2019) \$10,000
Accretion at the Lowest Luminosities Revealed by the Stellar-Mass Black Hole GS 2000+25 NASA/Chandra X-ray Observatory (PI)	$(2017 – 2019) \\ \$40,485$
The Formation and Evolution of Black Holes in the Era of Multi-Messenger Astronomy NRAO (co-PI w/ T. Maccarone)	(2017-2018) \$14,800
The Black Hole Population in Galactic Globular Clusters NASA/Hubble Space Telescope (PI)	$(2016-2019) \\ \$24,537$
Catching the Emergence of a Supernova Years After the Gamma Ra Research Corporation for Science Advancement (co-PI w/D. Gia	° ()
The Black Hole Population in Galactic Globular Clusters NASA/Chandra X-ray Observatory (PI)	(2016-2018) \$87,610
The Supernova Rate and Delay Time Distribution in the Local Grou NSF Astronomy & Astrophysics Research Grant (co-PI w/C. Ba	- ()
CHILES VERDES: The Transient Radio Sky at Incomparable Depth NSF Astronomy & Astrophysics Research Grant (PI)	$\begin{array}{c} h \\ (2014-2018) \\ \$262,103 \end{array}$
Tempest, Not Bombs: The Complex, Prolonged Explosions of Novae NASA/Fermi Gamma-Ray Observatory (PI)	e (2014–2017) \$182,814
A Black Hole in the Galactic Globular Cluster M62 NASA/Chandra X-ray Observatory (PI)	(2014-2017) \$52,079
National and International Committees	
National Academies' Committee on Radio Frequencies Decadal Survey on Astronomy and Astrophysics 2020 Science Panel on Compact Objects and Energetic Phenomena	2021–Present 2019–2020
Science Advisory Council for Next Generation Very Large Array (ng Including editing the ngVLA Science Book	gVLA) 2016–2021
Working Group on Time Domain Astronomy of the American Astronomical Society	2017-2020
Fermi Gamma-Ray Space Telescope Users Group	2015 - 2019
NRAO Users Committee (Deputy Chair in 2015, Chair in 2016)	2013-2016
NRAO Science Review Panel	2014–2015, 2017, 2018
Fermi Proposal Review Panel	2016
Chandra X-ray Observatory Time Allocation Committee	2015
NRAO Committee on Proposal Review and Time Allocation	2014
Hubble Fellow Selection Committee	2014
NSF Astronomy & Astrophysics Grants Review Panel	

NSF Astronomy & Astrophysics Postdoctoral Fellowship Panel NSF Major Research Instrumentation Panel

NSF CAREER Grant Review Panel

MSU Service	
Director of MSU Campus Observatory	2013–Present
Co-director of the MSU Observatory Research Program (MORP)	2016–Present
MSU Site Director for the National Astronomy Consortium (NAC)	2019–Present
Director of Physics & Astronomy Research Experiences for Drew Sch (PAREDS)	nolars 2020–Present
Physics & Astronomy Advisory Committee to the Chair (ADCOM) 2022–Present	2018–2020,
Mentor to Astronomy Faculty/Instructors: Ehab Ahmed (2019–2020) (2022–Present)	, Wolfgang Kerzendorf
Physics & Astronomy Promotion, Tenure, and Review Committee	2022–Present
Search Committee for director of the Drew Scholars Program	2022–Present
Search Committee for Astronomy Instructor	2018, 2019, 2022
Chair of Search Committee for Astronomy Faculty Hire	2019-2020
NatSci Strategic Planning Working Group for Undergraduate Educat	
Director of Undergraduate Astrophysics Major	2018 - 2020
Physics & Astronomy Colloquium Committee	2018 - 2020
Faculty Advisor to the MSU Astronomy Club	2013 - 2020
MSU Thesis Committees for non-advisee grad students	
J. Shields	2022–Present
C. Kopenhafer	2020–Present
A. Peisker, C. Teh	2019–Present
D. Douglas & J. Surbrook	2018–Present Ph.D. 2022
M. Grinder & L. Shishkovsky A. Peisker	Ph.D. 2022 2021
K. Dage, T. Poxon-Pearson & S. Swihart	2021
R. Connolly, C. Fry, & D. Votaw	2019
M. Bennett & A. Deibel	2016
Author of the Strategic Plan for the PA Astronomy Group	2019
Committee for a Strategic Plan on Diversity, Equity and Inclusion for Physics and Astronomy	2019
Organizer of Astronomy Seminars	2013–2015, 2018–2019
Physics & Astronomy Committee on Diversity	2016-2019
Undergraduate Program Committee	2013-2018
Ad Hoc Committee on STEM Laboratories	2014-2018
Ad Hoc Committee on a Departmental Teaching Strategic Plan	2017-2018
The first committee on a population of the found of the state of the	2011 2010

Search Committee for Particle Astrophysics Faculty Hire	2017-2018
Panelist at the NatSci Grant Writing Workshop for New Faculty	2018
Faculty Grievance Appeal Panel	2015
Search Committee for Nuclear Astrophysics Faculty Hire	2014-2015
Search Committee for Cowen Chair in Condensed Matter Physics	2013-2014
Conferences Organized	
SOC for Compact White Dwarf Binaries Conference	2019
SOC for Midwest Workshop on Supernovae and Transients	2019
Co-chair of conference, Astrophysical Frontiers in the Next Decade	2018
SOC for European Week of Astronomy and Space Science session on novae	2018
SOC for conference, Asymmetric Planetary Nebulae 7	2017
Co-chair for conference, Stellar Remnants at the Junction	2016
SOC for International Workshop on Shocks and Particle Acceleration in Novae and Supernovae	2016
SOC for Aspen Workshop on Black Holes in Star Clusters	2015
SOC for Type Ia Supernovae: Progenitors, Explosions, and Cosmology Conferen	nce 2014
Organizer for Compact Objects in Michigan Conference	2014
Organizer for NRAO Postdoc Symposium	2012

2010

Current Publication Summary: _____

Link to Citation Account in Google Scholar: http://scholar.google.com/citations?user=_gN33xkAAAAJ 178 refereed articles (14 first author) 364 non-refereed articles (Astronomer's Telegrams, submitted pre-prints, etc.) 9252 citations, h-index 53

Co-Chair of Radio Astronomy and the Interstellar Medium Conference

Courses Taught —

AST 208: Planets and Telescopes	S2014, S2015, S2016, S2018, S2019, S2020
ISP 205L: Visions of the Universe Lab F2016	F2018, S2020 [*] , F2021, S2022, F2022, S2023
AST 207: The Science of Astronomy	F2019
ISP 205: Visions of the Universe	F2014
$\star:$ Took over the course partway through the s	semester.

Outreach Activities (since 2013):	
Organizer of monthly public nights at MSU Observatory	2013–Present
\sim 50–200 people in attendance on typical evening Organizer of special-event nights at MSU Observatory	2013–Present
for Alumni Weekends, 4H, summer schools, school groups, etc.	2010 1100010

Organizer of International Observe the Moon Night at MSU Observatory ${\sim}200{-}400$ people in attendance at each annual event	2015–Present
Leader of Statewide Astronomy Night at MSU Observatory $\sim 200-400$ people in attendance at each annual event	2015–Present
Astronomical Horizons Public Lectures at the Abrams Planetarium Also scheduled the series (2018–2020)	2013-2020
Organizer of Observatory Collaborations with Howell Nature Center Including "Nature Nights" at MSU Observatory	2018-2020
Presenter at Astronomy on Tap, Lansing, MI	2016, 2019
Leader of Perseid Party at Cory Marsh Natural Area	Aug 2018
Organizer of Closest-Approach-of-Mars Night ~ 400 people in attendance	2018
Leader of astronomy session at 4H Exploration Days	2018
Organizer of Solar Eclipse Party ~ 500 people in attendance	2017
Co-Leader of Astronomy event at the Science Olympiad State Finals	2013 - 2015
Interviewee for Kavli Roundtable on Progenitor Systems of Type Ia Super-	novae 2015
Docent at Physics & Astronomy Day, Impression 5 Museum	2015
Leader of Aspen Physics Café	2015
Interviewee for NASA Blueshift public blog	2014
Presenter at University of Toronto AstroTour	2014
Presenter at the Nuclear Astrophysics MST Summer School	2014
Public Talk, Ann Arbor Lowbrow Astronomers	2014
Presenter at the <i>Physics of Atomic Nuclei</i> Summer Schools	2013
Physics Colloquium for MSU REU Students	2013
Other Service:	
Telescope Proposal Selection: GMRT, CFHT, HST	2012–Present
Referee for AAS Journals, Nature, Science, Monthly Notices of the Royal Astronomical Society	2010–Present
Career Panelist at the NRAO Postdoc Symposium	2015
Leader of weekly arXiv journal club for MSU astronomy group NSF Mid-Scale Innovations Project (MSIP) Reviewer	2013-2014
Postdoctoral Researchers Supervised or Co-supervised —	

Esha Kundu	2021–Present
Chelsea Harris	2020-Present
Elias Aydi	2018-Present
Ryan Urquhart	2018-Present

2018-2022
2018 - 2021
2015 - 2018
2016 - 2018
2016 - 2018
2015 - 2017
2013-2016

Ph. D. Students Supervised or Co-supervised —

Isabella Molina (MSU)	Graduating ~ 2025
Teresa Panurach (MSU; co-advised w/J. Strader)	Graduating 2023
Adam Kawash (MSU)	Graduated 2022
Miriam Nyamai (U Cape Town; ; co-advised w/P. Woudt & V. Ribeiro) Graduated 2021
Charee Peters (Wisconsin; co-advised w/E. Wilcots)	Graduated 2019
Sumit Sarbadhicary (U Pitt; co-advised w/C. Badenes)	Graduated 2018
Thomas Finzell (MSU)	Graduated 2017

M.S., Undergraduate, and High School Students Supervised or Co-supervised

 \star signifies that I advised their senior capstone experience.

† signifies that the student is an author on a refereed publication that emerged from the research experience.

Hailey Moore (MSU)	Graduating 2023 w/M.S.
Jessica Maldonado	2016–2019; M.S.
Danny Huizenga	2014–2017; M.S.
Jeremy Fedewa †	2022–Present
Cody Smith	2022–Present
Wasundara Athukoralalage	2021–Present
Matt Bartnik †	2021–Present
Michael Bellaver	2021–Present
Emma Dugan	2021–Present
Stephen Orbain	2021–Present
Shane Painter	2021–Present
Miranda Pikus	2021–Present
Ashley Stone	2021–Present
Hannah Sullivan	2021–Present
Brayden Swanson	2021–Present
Payton Walton	2021–Present
Levi Webb	2021–Present

Samantha Gunter	2019–Present
Sarah Watson	2019–Present
Vincenzo Donofrio	2021 - 2022
Jessica Ranshaw †	2021 - 2022
Lauren McDermott † \star	2020 - 2022
Jennifer Rodriguez †	2019 - 2022
Cameron Blochwitz $\dagger \star$	2019 - 2021
Jessie Miller	2019 - 2021
Evan Zobel †	2019 - 2021
Alessandro Dellarovere \star	2019 - 2020
Mira Ghazali	2019 - 2020
Jesse Leahy-McGregor †	2019 - 2020
Pranav Nalamwar	2019 - 2020
Courtney Wicklund	2019 - 2020
Brandon McIntyre	2019
Ibrahim Shawki	2019
Jasmin Washington	2019
Nathaniel Berry	2018 - 2020
Christina Conner	2018 - 2020
Trevor Franklin	2018 - 2020
Alexa Gordon †★	2018 - 2021
Barrett Ross	2018 - 2020
Brendan Boyd	2018 - 2019
Gavin Wilks	2018 - 2019
Lucas Peggau	2018
Aalayah Spencer	2018
Ryan Smith	2018
Colin Davis	2017 – 2020
Megan Davis	2017 – 2020
Matt Bundas	2017 – 2019
Hannah Gallamore \star	2017 – 2019
Dylan Mankel	2017 - 2019
Omid Noroozi	2017 – 2019
Hazirah Sanani*	2017 - 2019
Joe Adams	2017 - 2018
Megan Campbell	2017 - 2018
Jacob Crosby	2017 - 2018

Larissa Kennerley	2017-2018
Katie Schram	2017 - 2018
Luke Van Ess	2017 - 2018
Joey Seitz	2016 - 2019
Emily Washington	2016 - 2019
Jonathan Semeyn \star	2016 - 2018
Bradley Frink	2016 - 2018
Pranit Vengsarkar	2016 - 2018
Daniel Coulter †*	2015 - 2018
Huei Sears	2015 - 2018
Matt Marshall	2017 - 2018
Luis Bariuan	2018
Matthew Floyd	2018
Cielo Medina	2018
Anja Chivukula	2016 - 2017
Felicia Minott	2016 - 2017
Eric Kopins	2015 - 2017
Brian Luke	2015 - 2017
Pham Nguyen	2015 - 2017
John Owens	2015 - 2017
Dustin Scriven \star	2015 - 2017
Seth Bruzewski †	2014 - 2017
Jessica Martin	2014 - 2017
Austin Silcox \star	2014 - 2017
Autumn Cain	2017
Jenny Ward	2015 - 2016
And rew Bundas \star	2014 - 2016
Jason Emming	2014 - 2016
Madison Harris	2014 - 2016
Yunxiao Jia	2014 - 2016
Tyler Lux	2014 - 2016
Alex McComb \star	2014 - 2016
Stephen Mee	2014 - 2016
TJ Sassorossi	2014 - 2016
Carolyn Wendeln †*	2013-2016
Max Morehead	2016
Edward Buie	2014-2015

DuRay Petersen	2014 - 2015
Naomi Williams	2013 - 2015
David Saunders \star	2012 - 2015
Josh Milem	2015
Brandon Russell	2013-2014
Dana Koeppe †*	2013-2014
Jacob Gruhn	2013-2014
Invited Presentations (since 2013):	
Munich Joint Astronomy Colloquium Online	Feb 2023
Colloquium at Michigan State University East Lansing, MI	Oct 2022
Colloquium at Max Planck Institute for Radio Astronomy Online	Oct 2022
Colloquium at Center for Astrophysics Harvard & Smithsonian Online	Oct 2021
Astrolunch at Hebrew University of Jerusalem Online	Sep 2021
Radio/Millimeter Astrophysical Frontiers in the Next Decade Charlottesville, VA	Jun 2019
Fifty One Erg Conference Raleigh, NC	May 2019
Conference for Undergraduate Women in Physics Lansing, MI	Jan 2019
ThunderKAT Collaboration Workshop Arniston, South Africa	Dec 2018
Colloquium at New Mexico State University Las Cruces, NM	Nov 2018
Scialog 2018: Time Domain Astrophysics Tucson, AZ	Jun 2018
Quarks to the Cosmos Meeting of the American Physical Society Columbus, OH	Apr 2018
Observational Signatures of Type Ia Supernova Progenitors III Conference Leiden, Netherlands	Feb 2018
Colloquium at University of Wisconsin–Madison Madison, WI	Dec 2017
Colloquium at University of Wisconsin–Milwaukee Milwaukee, WI	Dec 2017
Colloquium at University of California–Los Angeles	

Los Angeles, CA	Nov	2017
Colloquium at Michigan State University East Lansing, MI	Nov	2017
Colloquium at Columbia University New York, NY	Oct	2017
Colloquium at University of Michigan Ann Arbor, MI	Oct	2017
Colloquium at University of Toledo Toledo, OH	Sep	2017
JvG Fest 2017: Gas and Galaxy Evolution Conference Stanley, ID	Aug	2017
Cottrell Scholars Conference 2017 Tucson, AZ	Jul	2017
NORDITA Extreme Gravity Stars Conference Stockholm, Sweden	Jun	2017
Conference on Shocks and Particle Acceleration in Novae New York, NY	Jun	2016
Colloquium at West Virginia University Morgantown, WV	Apr	2016
Colloquium at Northwestern University Evanston, IL	Mar	2016
Colloquium at Purdue University West Lafayette, IN	Mar	2016
Colloquium at University of Texas Rio Grande Valley Brownsville, TX	Feb	2016
Colloquium at Oakland University Rochester, MI	Feb	2016
U.S. Radio/Millimeter/Submillimeter Science Futures in the 2020's Chicago, IL		2015
Colloquium at Ohio State University Columbus, OH		2015
Scialog 2015: Time Domain Astrophysics Oracle, AZ		2015
Swinburne-Caltech Transient Workshop Pasadena, CA		2015
Radio Transients Workshop Oxford, UK		2015
Colloquium at International Centre for Radio Astronomy Research/Curtin Unive Perth, Australia	rsity	2015
Black Holes in Globular Cluster Mini-Workshop	oui	2010
Evanston, IL	May	2015

Colloquium at University of Minnesota Minneapolis, MN	Apr 2015
Colloquium at Indiana University	
Bloomington, IN	Mar 2015
Black Holes in Dense Star Clusters Conference Aspen, CO	Jan 2015
The Physics of Cataclysmic and Compact Binaries Workshop New York, NY	Oct 2014
Colloquium at University of Alabama Tuscaloosa, AL	Oct 2014
Type Ia Supernovae: Progenitors, Explosions, and Cosmology Conference Chicago, IL	Sep 2014
"Explosions I Have Known": Stirling Colgate's Legacy in Science Conference Los Alamos, NM	Aug 2014
Fast and Furious: Understanding Exotic Astrophysical Transients Workshop Aspen, CO	Jun 2014
Colloquium at University of Illinois Urbana-Champaign, IL	Apr 2014
Colloquium at University of Toronto Toronto, Canada	Feb 2014
Colloquium at Notre Dame Notre Dame, IN	Dec 2013
Colloquium at Western Ontario London, Canada	Dec 2013
Colloquium at University of Wisconsin Madison, WI	Nov 2013
Observational Signatures of Type Ia Supernova Progenitors Workshop Leiden, Netherlands	Sep 2013
Radio Transients with SKA Pathfinders and Precursors Conference Kruger, South Africa	Jul 2013
40 Years of Variable Stars Conference East Lansing, MI	May 2013
NRAO Postdoc Symposium Green Bank, WV	May 2013
Fifty One Ergs Conference Raleigh, NC	May 2013
High Energy Astrophysics Division Meeting of the American Astronomical Societ Monterey, CA	ty (AAS) Apr 2013
Colloquium at University of Michigan Ann Arbor, MI	Mar 2013
Colloquium at Wayne State University	

Detroit, MI
Colloquium at Oskar Klein Centre
Stockholm, Sweden

Feb 2013

Feb 2013