

Adam Leah W. HARVEY

PhD Candidate in Physics | University of Maryland, Baltimore County

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Also known as : Adam L.W. Harvey; Adam W. Harvey

Passionate about data science and statistics. Highly interested in observation of high-energy astrophysical phenomena. Experienced in empirical spectral energy distribution modeling and high-precision optical-UV astrometry. Currently researching proper motions of optical-UV jets in active galactic nuclei using Hubble Space Telescope imaging.

Education

Expected 2021	PhD in Physics, University of Maryland, Baltimore County (UMBC)
2017	MS in Physics, UMBC
2013	BA in Physics, Lewis & Clark College (LC)
2013	BA in Mathematics, LC

Publications

- “Powerful extragalactic jets dissipate their kinetic energy far from the central black hole”, Harvey, Adam Leah W.; Georgopoulos, Markos; Meyer, Eileen T. (accepted, *Nature Communications*)

Oral Presentations

NASA GODDARD VLBI SEMINAR SEPTEMBER 19, 2019 NASA GSFC, MARYLAND, USA	“Powerful blazar jets dissipate their kinetic power to radiation from a single location : the molecular torus” 1 HOUR, INVITED
A CENTENARY OF ASTROPHYSICAL JETS : OBSERVATION, THEORY, AND FUTURE PROSPECTS JULY 23, 2019 SKA GLOBAL HEADQUARTERS, UK	“Powerful blazar jets dissipate their kinetic power to radiation from a single location : the molecular torus” 15 (10+5) MINUTES, CONTRIBUTED
MID-ATLANTIC RADIO-LOUD AGN MEETING OCTOBER 25, 2018 MARYLAND, USA	“The seed factor : how a combination of four observables can unveil the location of the blazar GeV emission.” 10 (7+3) MINUTES, CONTRIBUTED
BOSTON UNIVERSITY AGN GROUP MEETING OCTOBER 5, 2018 MASSACHUSETTS, USA	“The seed factor : how a combination of four observables can unveil the location of the blazar GeV emission” 15 (10+5) MINUTES, INVITED
FERMI SUMMER SCHOOL JUNE 5, 2018 DELAWARE, USA	“The seed factor : how a combination of four observables can unveil the location of the blazar GeV emission” 15 MINUTES, CONTRIBUTED
MID-ATLANTIC RADIO-LOUD AGN MEETING OCTOBER 6, 2017 WASHINGTON, DC, USA	“Surveying blazar constraints of the extragalactic background light” 15 (10+5) MINUTES, CONTRIBUTED

Poster Presentations

AMERICAN ASTRONOMICAL SOCIETY 233RD MEETING JANUARY 8, 2019 WASHINGTON, USA	“The seed factor : how a combination of four observables can unveil the location of the blazar GeV emission.”
8TH INTERNATIONAL FERMI SYMPOSIUM OCTOBER 16-19, 2018 MARYLAND, USA	“The seed factor : how a combination of four observables can unveil the location of the blazar GeV emission”
AMERICAN ASTRONOMICAL SOCIETY 231ST MEETING JANUARY 12, 2018 WASHINGTON, DC, USA	“The seed factor : how a combination of four observables can unveil the location of blazar GeV emission.”

Research Experience

2015-PRESENT	<i>Graduate Research</i> UMBC <ul style="list-style-type: none">➤ PROPER MOTIONS OF OPTICAL-UV AGN JETS USING HUBBLE SPACE TELESCOPE IMAGING.➤ CONSTRAINING THE DOMINANT LOCATION OF KINETIC ENERGY DISSIPATION IN POWERFUL BLAZARS.➤ CHARACTERIZING THE EXTRAGALACTIC BACKGROUND LIGHT USING Fermi-LAT OBSERVATIONS OF BLAZARS.
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Grants and Awards

2020	GSA PROFESSIONAL DEVELOPMENT GRANT (\$500)
2019	GSA PROFESSIONAL DEVELOPMENT GRANT (\$100)
2017	GSA TRAVEL GRANT (\$411.20)

Attendee Experiences

- **Making Inclusive Workplaces**, October 15, 2019, Maryland, USA
- **Inclusive Astronomy 2**, October 14-15, 2019, Maryland, USA
- **NRAO Community Days**, June 13-14, 2019, Maryland, USA
- **Fermi Summer School**, May 29-June 8, 2018, Delaware, USA
- **São Paulo School of Advanced Science on High Energy and Plasma Astrophysics in the CTA Era**, May 21-31, 2017, Brazil

Teaching Experience

UMBC PHYSICS DEPARTMENT 2016-PRESENT	<i>Undergraduate Mentoring</i>
UMBC PHYSICS DEPARTMENT APRIL 2-4 2019	<i>Substitute Teaching, Cosmology (PHYS 416)</i>
UMBC PHYSICS DEPARTMENT AUGUST 2015-AUGUST 2017	<i>Teaching Assistant</i>
UMBC PHYSICS DEPARTMENT APRIL 14 2017	<i>Substitute Teaching, Introductory Physics I (PHYS 121)</i>
LC STUDENT SUPPORT SERVICES SEPTEMBER 2011-MAY 2012	<i>Physics Tutor</i>
LC PHYSICS DEPARTMENT AUGUST 2010-DECEMBER 2010	<i>Physics Help Desk Tutor</i>

Service

2020-PRESENT	MEMBER , AMERICAN ASTRONOMICAL SOCIETY COMMITTEE FOR SEXUAL-ORIENTATION AND GENDER MINORITIES IN ASTRONOMY
2019-2020	MEMBER , UMBC COMMUNITY EQUITY ADVISORY COMMITTEE
2019	MEMBER , UMBC DIRECTOR OF EQUITY AND INCLUSION SEARCH COMMITTEE
2018-2019	CHAIR , UMBC UNIVERSITY STEERING COMMITTEE
2017-2019	VICE PRESIDENT , UMBC GRADUATE STUDENT ASSOCIATION
2019	LUNCH LEADER , UMBC PHYSICS DEPARTMENT PROSPECTIVE GRADUATE STUDENT VISIT DAY
2017-2018	MEMBER , UMBC UNIVERSITY STEERING COMMITTEE
2017-2018	CHAIR , UMBC PHYSICS GRADUATE STUDENT ASSOCIATION STUDENT SEMINAR SERIES
2017	MEMBER , UMBC GRADUATE SCHOOL ASSISTANT DEAN SEARCH COMMITTEE
2017	CHAIR , UMBC GRADUATE STUDENT ASSOCIATION TREASURY COMMITTEE
2016-2017	CHAIR , UMBC GRADUATE STUDENT ASSOCIATION GRANTS COMMITTEE
2016-2017	SENATOR , UMBC GRADUATE STUDENT ASSOCIATION