Adam Leah W. **HARVEY** PhD Candidate in Physics | University of Maryland, Baltimore County

L+1 (503) 319-2980

@Harvey.Adam.Leah.W@gmail.com

Q1000 Hilltop Circle Baltimore, MD, USA 21250

iORCID iD: 0000-0002-4953-018X

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

Passionate about data science and statistics, particularly in application to observations of high-energy astrophysical phenomena. Experienced in empirical spectral energy distribution modeling. Currently researching proper motions of optical-UV jets in active galactic nuclei using Hubble Space Telescope observations.

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

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
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

Skills

Technical Skills C/C++, R, Fortran, Python, Perl, Git, Visual Basic Script, Visual Basic .NET, Mathematica, SQL,

Bash, CMD, Power Shell, Android Studio and SDK, Windows Management Instrumentation,

Dexter, Fermi Science Tools, HTML, CSS, Hubble Space Telescope image registration

Publishing and Design LaTeX, Microsoft Office (Word, Excel, PowerPoint), Adobe Creative Cloud (Photoshop, Illustra-

tor, InDesign)

Languages English, Japanese

Other Classical guitar, photography

Publications

➤ "Powerful extragalactic jets dissipate their kinetic energy far from the central black hole", Harvey, Adam L.W.; Georganopoulos, Markos; Meyer, Eileen T. (accepted, Nature Communications)

Oral Presentations

NASA GODDARD VLBI SEMINAR

"Powerful blazar jets dissipate their kinetic power to radiation from a single location : the molecular torus"

SEPTEMBER 19, 2019

NASA GSFC, GREENBELT, MARYLAND, USA

1 hour Invited

A CENTENARY OF ASTROPHYSICAL JETS: OBSERVATION, THEORY, AND FUTURE PROSPECTS

JULY 23, 2019 SKA GLOBAL HEADQUARTERS, CHE-SHIRE, 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
BALTIMORE, 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

OCTOBER 5, 2018
BOSTON, MASSACHUSETTS, USA

"The seed factor: how a combination of four observables can unveil the location of the

blazar GeV emission" 15 (10+5) minutes

Frank Commen Compon

Invited

FERMI SUMMER SCHOOL "The seed factor: how a combination of four observables can unveil the location of the

blazar GeV emission"

JUNE 5, 2018 15 minutes
LEWES, DELAWARE, USA 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

SEATTLE, WASHINGTON, USA

"The seed factor: how a combination of four observables can unveil the location of the blazar GeV emission."

 $\mathbf{8}^{\mathsf{TH}}$ International Fermi Symposium

October 16-19, 2018 Baltimore, 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."

Attendee Experiences

- ➤ Making Inclusive Workplaces, workshop, October 15, 2019, Baltimore, Maryland, USA
- > Inclusive Astronomy 2, conference, October 14-15, 2019, Baltimore, Maryland, USA
- > UMBC Graduate Student Mental Wellness Symposium, symposium, September 27, 2019, Baltimore, Maryland, USA
- ➤ NRAO Community Days, workshop, June 13-14, 2019, Baltimore, Maryland, USA
- > Fermi Summer School, summer school, May 29-June 8, 2018, Lewes, Delaware, USA

- ➤ São Paulo School of Advanced Science on High Energy and Plasma Astrophysics in the CTA Era, summer school, May 21-31, 2017, São Paulo, Brazil
- > Mid-Atlantic Radio-Loud AGN Meeting, conference, October 14, 2016, Baltimore, Maryland, USA

Research Experience

2017-PRESENT

Graduate Research Assistant UMBC

- > Proper motions of optical-UV AGN jets using Hubble Space Telescope data.
- > Constraining the dominant location of kinetic energy dissipation in powerful blazars.

Teaching Experience

UMBC PHYSICS DEPARTMENT

Undergraduate Mentoring

2016-PRESENT

APRIL 2-4 2019

Mentored 3 undergraduate students

UMBC PHYSICS DEPARTMENT

Substitute Teaching, Cosmology (PHYS 416)

2 class periods

Developed lesson plan and problem set

UMBC Physics Department

AUGUST 2015-AUGUST 2017

Teaching Assistant

UMBC Physics Department

APRIL 14 2017

Substitute Teaching, Introductory Physics I (PHYS 121)

Substituted for large lecture section

LC STUDENT SUPPORT SERVICES

SEPTEMBER 2011-MAY 2012

Physics Tutor

LC PHYSICS DEPARTMENT

AUGUST 2010-DECEMBER 2010

Physics Help Desk Tutor

Miscellaneous Achievements

- > Placed first in the First Annual UMBC Graduate Student Association Pi-Day Pi-K running event
- > Invited speaker at the UMBC 2018 PhD Candidacy Ceremony
- ➤ Invited panelist at UMBC Women's Center 2018 symposium
- Invited speaker at the UMBC 2018 Graduate School Orientation
- > Panelist on the Graduate Life Panel at the UMBC 2018 Graduate School Orientation
- ➤ Invited participant in the UMBC 2018 University Retreat
- > Contributed code to pythonFermi.
- > Contributed code to enrico.
- > Invited speaker at the UMBC 2017 Graduate School Orientation
- > Invited participant in the UMBC 2017 University Retreat

Grants and Awards

2020 | GSA Professional Development Grant (\$500)

2019 | GSA Professional Development Grant (\$100)

2017 | GSA Travel Grant (\$411.20)

References

Dr. Eileen T. Meyer

Assistant Professor

PHYSICS DEPARTMENT, UNIVERSITY OF MARYLAND, BALTIMORE COUNTY

@ meyer@umbc.edu

J +1 (410) 455-2534

Dr. Markos Georgonapoulos

Associate Professor

Physics Department, University of Maryland, Baltimore County

@ georgano@umbc.edu

J +1 (410) 455-8149

Dr. Janet C. Rutledge

Vice Provost and Dean of the Graduate School

THE GRADUATE SCHOOL, UNIVERSITY OF MARYLAND, BALTIMORE COUNTY

@ jrutledge@umbc.edu

J +1 (410) 455-2199

Dr. Jeffrey Halverson

Associate Dean and Professor of Geography

THE GRADUATE SCHOOL, UNIVERSITY OF MARYLAND, BALTIMORE COUNTY

ø jeffhalv@umbc.edu

J +1 (410) 455-3350