DR. MUNAZZA K. ALAM

Carnegie Earth & Planets Laboratory, 5241 Broad Branch Road NW, Washington, DC 20015 malam@carnegiescience.edu $\diamond +1$ 917-829-1410 \diamond https://munazzaalam.github.io

RESEARCH INTERESTS

Observations of exoplanet atmospheres, host star elemental abundances, planet formation and evolution

EMPLOYMENT

Carnegie Earth & Planets Laboratory, Carnegie EPL Postdoctoral Fellow2021–Harvard University, Postdoctoral Researcher2021

EDUCATION

Harvard University 2016–2021

Ph.D., Astronomy and Astrophysics

Thesis: "Characterizing Distant Worlds: Atmospheric Reconnaissance of Giant Planets with Hubble" Advisor: Dr. Mercedes López-Morales

A.M. (2018), Astronomy and Astrophysics

Macaulay Honors College at Hunter College, City University of New York (CUNY) 2012–2016 B.A., Physics and Astronomy – Summa Cum Laude (Salutatorian)

FELLOWSHIPS & GRANTS

National Geographic Young Explorers Grant	2015-
NSF Graduate Research Fellowship	2017 - 2020
John P. and Carol J. Merrill Graduate Fellowship, Harvard University	2017
Judith and Stanley Zabar Graduate Scholarship, Hunter College	2016
John P. McNulty Scholarship, Hunter College	2014 - 2016
CUNY Macaulay Honors College full merit scholarship, Hunter College	2012 - 2016

SELECTED HONORS & AWARDS

Rodger Doxsey Travel Prize, AAS 237th Meeting	2021
Keck Principal Investigator Data Award, NExSci for NASA	2020
Nominated as one of the 40 Women to Watch in 2019, The Tempest	2019
Derek Bok Center Certificate of Distinction in Teaching, Harvard University	2017, 2018
Awarded for teaching SPU 30 (Life as a Planetary Phenomenon), Spring 2017	
Awarded for teaching AY 16 (Stellar & Planetary Astronomy), Spring 2018	
Best Poster Award, IAC Winter School of Radiative Transfer in Stellar & Planetary Atmospheres	2017
Joseph A. Gillet Memorial Prize, Hunter College	2016
Award Citation: "awarded to a member of the senior class who has, in the opinion	
of the department, the most thorough knowledge of general physics"	
Rosalyn S. Yalow Award, Hunter College	2016
Award Citation: "presented to one of Hunter's finest science students"	

ACCEPTED OBSERVING PROPOSALS (AS PI)

- A Sharper Look: Observing a Clear Atmosphere Exoplanet Simultaneously at Low & High Spectral Resolution, Magellan/MIKE + Magellan/IMACS 2021B semester, 1 night, **PI: Alam**, Co-Is: Teske, Gao
- Probing Atmospheric Escape in Young Transiting Exoplanets, Keck II/NIRSPEC 2020B semester, 1.5 nights,
 - PI: Alam, Co-Is: dos Santos, Kirk, López-Morales, Ehrenreich, Bourrier, Allart, Siedel, Lovis, Livingston, King, Oklopčić, Zhou
- Investigating Giant Planet Origins with Elemental Abundances of Stellar Hosts, Keck I/HIRES 2020A semester, 0.25 nights, **PI: Alam**, Co-I: López-Morales
- Investigating Giant Planet Origins: Stellar Host Elemental Abundances, Magellan/MIKE 2019A, 2020A, & 2020B semesters, 6.5 nights, PI: Alam, Co-Is: López-Morales, Buchhave

SELECTED INVITED TALKS

Seminar NASA ExoExplorers, The First Near-Infrared Transmission Spectrum of III 41378 f. a Low-Masa Temperate Jovian World in a Multi-Planet System Seminar Carnegie EPL, A NIR Transmission Spectrum for IIIP 41378 f. Guest Lecture University of Windsor, Exotic Exoplanets and How to Find Them Oc Guest Lecture American University, Exotic Exoplanets and How to Find Them Oc Colloquium Oberlin College, Characterizing Exoplanet Atmospheres with Hubble Seminar University of Mchigan, A Cloud-Free Atmosphere for WASP-62b, the Only Known Gas Gant in the JWST Continuous Viewing Gant Planet Atmospheres with Hubble Seminar University of Chicago, Characterizing Giant Planet Atmospheres with Hubble Seminar University of Chicago, Characterizing Giant Planet Atmospheres with Hubble And Large Ground-based Telescopering Giant Planet Atmospheres with Hibble And and Large Ground-based Telescopering Giant Planet Atmospheres with Hibble And Carge Ground-based Telescopering Giant Planet Atmospheres with Hibble Seminar University of Exeter, Characterizing Giant Planet Atmospheres with Hibble And Carge Ground-based Telescopering Giant Planet Atmospheres with Hibble And and Carge Ground-based Telescopering Giant Planet Atmospheres with Hibble And Carge Ground-based Telescopering Giant Planet Atmospheres with Hibble Seminar Columbia University, The HST PanCET Program: Characterizing Giant Planet Atmospheres of Inflated Hot Impliers Seminar Geneva Observatory, Precise Optical Transmission Spectra for a Hot Jupiter and a Nearby Super-Earth Seminar Pontificia Universidad Católica, An Optical Transmission Spectrum for WASP-52b Talk Exo-Webb Summer Series, Evidence of a Clear Atmosphere for WASP-62b, the Only Known Telescopes and the Future of Astronomy SELECTED CONTRIBUTED TALKS Talk Exo-Webb Summer Series, Evidence deeting 2, Precise Optical Transmission Spectra for a hot Jupiter and a nearby super-Earth Conference Recoplanets II, An Optical Transmission Spectrum of the Inflated Hot Jupiter WASP-52b Conference Keep	ELECTED INVITED TALKS	
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Understand the Universe Au		Aug 2021
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Podcast HMSC Science Connects!, Pondering Distant Suns	Jun 2020
Book National Geographic Kids, Absolute Expert: Space!	Jun 2020
Magazine National Geographic, "Women: A Century of Change"	Mar 2020
Radio show RMWorldTravel with Robert & Mary Carey and Rudy Maxa	Aug 2019
Podcast KPCC Radio, Tell Them, I Am (Episode 20)	May 2019
Magazine National Geographic Kids, "Dare to Explore"	Mar 2019
Video Explorer Academy: The Truth Behind	Oct 2018
Television CUNY TV Study with the Best (Culture and Identity)	May 2018
Book National Geographic Kids Solve This!: Wild & Wacky Challenges for the Genius	Mar 2018
Engineer in You	
Book National Geographic Kids Explorer Almanac 2019	May 2018
Article National Geographic, Woman of Impact in Science, Meet Munazza Alam: the woman	Mar 2018
searching for planet Earth's twin	
Article National Geographic, Finding Clarity in the Stars	Oct 2016

SELECTED OUTREACH & SERVICE

Organizer Carnegie EPL Astronomy Seminar	2022-
Postdoc representative Carnegie EPL Library Committee	2021-
Graduate student representative CfA Director Search Committee	2021
Student representative Harvard Graduate Admissions Committee	2021
Committee member Center for Astrophysics Harvard & Smithsonian APS-IDEA	2020 - 2021
Coordinator Harvard Astronomy Peer Mentoring Program	2019 - 2021
Reviewer Hubble Space Telescope Proposal Review Committee, Mid-Cycles 26 & 27	2019 - 2020
Co-founder Open Labs at Harvard	2016 - 2019
Poster judge National Collegiate Research Conference	2017, 2018

PUBLICATIONS

22 refereed or submitted papers, 6 first and second author (via NASA ADS).

FIRST & SECOND AUTHOR PUBLICATIONS

- 6. Alam, M.K., Kirk, J., Dressing, C.D., López-Morales, M., Ohno, K., Gao, P., Akinsanmi, B., Santerne, A., Grouffal, S., Adibekyan, V., Barros, S.C.C., Buchhave, L., Crossfield, I.J.M., Dai, F., Deleuil, M., Giacalone, S., Lillo-Box, J., Marley, M., Mayo, A.W., Mortier, A., Santos, N.C., Sousa, S.G., Turtelboom, E.V., Wheatley, P.J., Vanderburg, A.M. The First Near-Infrared Transmission Spectrum of HIP 41378 f, a Low-Mass Temperate Jovian World in a Multi-Planet System (accepted to ApJL, arXiv DOI: 2201.02686).
- 5. Alam, M.K., López-Morales, M., MacDonald, R., Nikolov, N., Kirk, J., Goyal, J., Sing, D.K., Wakeford, H.R., Rathcke, A.D., Deming, D.L., Sanz-Forcada, J., Lewis, N.K., Barstow, J.K., Mikal-Evans, T., Buchhave, L.A. Evidence of a Clear atmosphere for WASP-62b, the Only Transiting Giant Planet in the JWST Continuous Viewing Zone, The Astrophysical Journal Letters, 906, 2, pp.L10-L20 (2021).
- 4. Alam, M.K., López-Morales, M., Nikolov, N., Sing, D.K., Henry, G.W., Baxter, C., Désert, J.M., Barstow, J.K., Mikal-Evans, T., Bourrier, V., Lavvas, P., Wakeford, H.R., Williamson, M.H., Sanz-Forcada, J., Buchhave, L., Cohen, O., García Muñoz, A. *The HST PanCET Program: An Optical to Infrared Transmission Spectrum of HAT-P-32Ab*, The Astronomical Journal, 160, 1, pp.51-70 (2020).
- 3. Kirk, J., Alam, M.K., López-Morales, M., Zeng, Li. Confirmation of WASP-107b's extended Helium atmosphere with Keck II/NIRSPEC, The Astronomical Journal, 159, 3, pp.115-124 (2020).
- 2. Alam, M.K., Nikolov, N., López-Morales, M., Sing, D.K., Goyal, J., Henry, G.W., Sanz-Forcada, J., Williamson, M.H., Evans, T.M., Wakeford, H.R., Bruno, G., Ballester, G.E., Stevenson, K.B., Lewis, N.K., Barstow, J.K., Bourrier, V., Buchhave, L.A., Ehrenreich, D., García Muñoz, A. The HST PanCET Program: Detection of Na I & A Cloudy Atmosphere for the Inflated Hot Jupiter WASP-52b, The Astronomical Journal, 156, 6, pp. 298-323 (2018).
- 1. Riedel, A.R., Alam, M.K., Rice, E.L., Cruz, K.L., & Henry, T.J. Young Stars with SALT, The Astrophysical Journal, 840, 2, pp.87-106 (2017).

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