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 |
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| 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 And Carge Ground-based Telescopering Giant Planet Atmospheres with Hibble And Carge Ground-based Telescopering Giant Planet Atmospheres Seminar Columbia University, The HST PanCET Program: Characterizing Giant Planet Atmospheres Geninar Golumbia University, Trecise Optical Transmission Spectra for a Hot Jupiter And a Nearby Super-Farth Seminar Pontificia Universidad Católica, An Optical Transmission Spectrum for WASP-52b, the Only Known Telescopes and the Future of Astronomy SELECTED CONTRIBUTED TALKS Talk Exo-Webb Summer Series, Evidence of a Clear Atmosphere for WASP-52b, the Only Known Transiting Gas Giant in the JWST Continuous Viceting Zone Conference Recoplanets II, An Optical Transmission Spect | ELECTED INVITED TALKS | |
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| Seminar Carnegie EPL, A NIR Transmission Spectrum for HIP 413781 | · · · · · · · · · · · · · · · · · · · | Jan 2022 |
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| Podcast HMSC Science Connects!, Pondering Distant Suns | Jun 2020 |
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| 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

28 referred 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, The Astrophysical Journal Letters, 927, 1, pp.L5-L14 (2022).
- 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).
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