John F. Wu — CV

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Research interests

Galaxy formation and evolution, galaxy–halo–environment connection, the multiphase ISM and CGM, scientific machine learning, iterpretable artificial intelligence, large language models

APPOINTMENTS

Associate Astronomer Space Telescope Science Institute	Baltimore, MD 2025 - Present
•	Baltimore, MD
Space Telescope Science Institute	2022 - 2025
Center for Astrophysical Sciences, Johns Hopkins University Department of Computer Science, Johns Hopkins University Postdoctoral Researcher Space Telescope Science Institute Center for Astrophysical Sciences, Johns Hopkins University Graduate Research Assistant Rutgers, The State University of New Jersey Undergraduate Research Assistant McWilliams Center for Cosmology, Carnegie Mellon University	Baltimore, MD 2022 - Present 2024 - Present Baltimore, MD 2020 - 2021 2019 - 2020 Piscataway, NJ 2013 - 2019 Pittsburgh, PA 2012 - 2013 Pittsburgh, PA 2011
EDUCATION	
Ph.D. in Physics and Astronomy Rutgers, The State University of New Jersey	Piscataway, NJ 2013 – 2019
B.Sc. in Physics/Astrophysics, with MCS Honors Carnegie Mellon University	Pittsburgh, PA 2009 – 2013
Professional Memberships	
American Astronomical Society International Astronomical Union GRANTS AND AWARDS	2015 – Present 2021 – Present
Maryland Academy of Sciences, Outstanding Young Scientist award, \$5,000	2024
NSF, Explore ACCESS GPU allocation, equivalent to \$1,386	2023
STScI, Director's Discretionary Research Funding, \$68,110	2022
Google, GCP Research Credits Program, \$5,000	2019
Rutgers, Robert A. Schommer Prize, \$500	2018
USAID, Research and Innovation Fellowship, \$11,636	2016
Rutgers, Special Study Award, \$1,350 Rutgers, Claud Lovelace Graduate Fellowship & Excellence Fellowship Supplement, \$1,000	2014 2013
CMU, Senior Leadership Recognition	2013

Advising and Mentorship

Primary advisor, Mikaeel Yunus (JHU/PhD student in Physics and Astronomy)	2023 - Present		
$ Primary \ advisor, \ \textit{Harish Krishnakumar (Princeton/Undergrad)} $	2022 - Present		
Primary advisor, Nikhil Garuda (Arizona/Undergrad)	2024 - 2025		
Co-advisor, Sophia Rivera (JHU/Undergrad)	2024		
Primary advisor, Kiera McCormick (Loyola/STScI SASP & JHU JSALT Intern) Primary advisor, Christine Ye (Stanford/JHU JSALT Intern) Primary advisor, Charles O'Neill (ANU/JHU JSALT Intern) Primary advisor, Alina Hyk (Oregon State/JHU JSALT Intern) Co-advisor, Austin Larson (JHU/Masters in CS)	2024 2024 2024 2024 2024		
		Primary advisor, Phani Velicheti (Arizona/STScI SASP Intern)	2022
		Primary advisor, Ziting Guo (Yale-NUS/Undergraduate capstone project)	2021 - 2022
		Mentor, Kamonte Johnson (Frostburg State University/CollegeBound Foundation CCP)	2020 - 2022
		Co-advisor, Antoine Washington (Rutgers University/Undergraduate senior thesis)	2017 - 2020
Co-advisor, Marcell Howard (Case Western Reserve University/REU)	2018		
Co-advisor, Manuel Perez III (University of Redlands/REU)	2017		
Seminars and Talks (†Invited)			
†Talk, NASA Cosmic Origins Galaxies SIG (virtual)	2025		
†Colloquium, MIT Kavli Institute Astronomy Colloquium	2025		
†Seminar, Fermilab AI Seminar (virtual)	2025		
†Colloquium, University of Louisville Physics & Astronomy	2025		
Talk, Flatiron CCA, Cosmology and Galaxy Astrophysics with []	2024		
†Seminar, Rutgers University Astronomy Seminar	2024		
†Talk, HWO Generative AI Task Group	2024		
†Talk, ESA Space Science and Machine Learning (virtual)	2024		
†Talk, NOIRLab, Rare Gems in Big Data	2024		
†Talk, LSST-DA Informatics & Statistics Science Collaboration meeting	2024		
Talk, Aspen Center for Physics, Diffuse Cosmic Backgrounds []	2024		
†Colloquium, Swarthmore Physics & Astronomy, Colloquium	2024		
†Seminar, Roman Virtual Lecture Series (virtual)	2024		
Poster, ICML, Machine Learning for Astrophysics	2023		
Talk, STScI, Roman Science Inspired by Emerging JWST Results	2023		
Poster, Flatiron CCA, Cosmic Connections Symposium	2023		
†Talk, KITP, Galaxy Formation and Evolution in the Data Science Era	2023		
†Seminar, University of Helsinki Astrophysics Seminar (virtual)	2022		
†Seminar, Carnegie Observatories Lunch Talks	2022		
†Seminar, UMBC Astrophysics Seminar	2022		
†Special Talk, STScI	2021		
Talk, JHU/STScI HotSci Series	2021		
†Seminar, Université de Montréal, Astrophysics Seminar (virtual)	2021		
†Seminar, University of Toronto, Statistics and Machine Learning Journal Club (virtual)	2021		
tSeminar Western Sudney University Machine Learning in Astronomy	2021		

Seminar, Space Telescope Science Institute, Galaxies Journal Club	2021		
†Seminar, Fermilab, Cosmic Physics Center Seminar (virtual) Poster, NeurIPS, Machine Learning for the Physical Sciences workshop (virtual) †Talk, NCSA - Accelerated Artificial Intelligence for Big-Data Experiments (virtual) †Seminar, NOIRLab, Flash Seminar (virtual) †Seminar, Wayne State University, Particle/Astro/Nuclear Physics Seminar (virtual) †Talk, The ISM in the Era of Big Data (AAS 236, virtual) Talk, JHU Astro Coffee †Talk, Astronomers Turned Data Scientists Meeting (AAS 235) Poster, AAS 235th Meeting Seminar, STScI, Science Coffee Seminar †Deep learning workshop, MIAPP - Galaxy Evolution in a New Era of HI Surveys Talk, ESO — Nine Billion Years of Gas Evolution †Seminar, Rutgers Statistics, Foundations of Probability Seminar Dissertation talk, AAS 233rd Meeting †Seminar, Princeton, Galread Seminar †Seminar, Princeton, Data Science/COMPASS Seminar †Seminar, University of Cape Town, Lunch Seminar Poster, École Normale Supérieure - Galaxy Evolution Across Time	2021 2020 2020 2020 2020 2020 2020 2020 2019 2019 2019 2019 2019 2019 2019 2019 2019 2019 2016 2016 2016		
		Talk, Princeton-Rutgers Extragalactic Science Day	
		Talk, AAS 227th Meeting	
		†Seminar, Australian Astronomical Observatory, Colloquium	
		SERVICE	
		Journal Reviewer for AJ, ApJ, A&A, JOSS, MNRAS, PASA, and PNAS Machine Learning conference/workshop paper reviewer for NeurIPS and ICML	
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		Member, ADS Users Group	2024 – Present
		Member, STScI Prize Fellowship Committee	2024 – Present
		Member, NOIRLab Data Science Advisory Sub-committee	2022 – $Present$
		Member, STScI Honors Committee	2024 - Present
		Reviewer, NSF Review Panel	2025
		Member, JHU/STScI Joint Colloquium Committee	2023 - 2024
		Panel Moderator, NeurIPS, Machine Learning and the Physical Sciences	2023
		Reviewer, NASA Astrophysics Data Analysis Program (ADAP)	2023
		Reviewer, NASA Postdoctoral Program (NPP)	2023
		Member, NRAO Science Review Panel (SRP)	2022 - 2023
		Founder/Organizer, STScI Machine Learning Reading Group (MLRG)	2022 - 2023
		Guest Editor, Annual Reviews of Astronomy and Astrophysics (ARA&A Vol. 63)	2023
Program Coordinator & Diversity Lead, KITP Program - galevo23		2023	
Coordinator, STScI Science Staff Retreat		2022	
Leveler, JWST Cycle 1 Panel		2021	
Co-organizer, Low Density Universe (LDU) Meetings	2020 - 2021		

STScI Liason, JHU Physics and Astronomy Postdocs + Research Scientists	2020
Session Chair, AAS 236 ISM-BIG meeting-in-meeting	2020
Co-organizer, JHU CAS Astro Coffee	2020
Co-organizer, Rutgers Gaia DR2 Hackathon	2018
Co-organizer, Rutgers SPS/RAS Astro Hack Sessions	2018
Webmaster, Rutgers Physics GSO and SSPAR	2014 - 2017
Time Allocation Committee Member, $SALT\ 20152\ Rutgers\ TAC$	2015
Local Organizing Committee Member, 2015 PHISCC Workshop	2015
Organizer, Student Seminars in Physics and Astronomy at Rutgers (SSPAR)	2014 - 2015
Vice President, Rutgers Physics Graduate Student Organization (GSO)	2014 - 2015
TEACHING AND OUTREACH	
Speaker, PREP-KC – "How Do I Become an Astronomer?"	2025
Guest Lecturer, NAACL and CLSP Summer School	2024
Podcast Guest Speaker, Where What If Becomes What's Next	2024
Guest Lecturer, Swarthmore College, Introduction to Radio Astronomy	2024
Ingenuity Speaker Series, Ingenuity Project (Baltimore Polytechnic Institute)	2023
Guest Lecturer, LSST Data Science Fellowship Program (DSFP)	2023
Speaker, Linda Hall Library - "How Do I Become an Astronomer?"	2023
Speaker, Astronomy on Tap Baltimore	2023
Podcast Guest Speaker, Times Higher Education (THE) Campus Podcast	2022
Guest Speaker, Marymount School of New York, Independent Science Research	2021
Teaching Assistant, STScI ML Office Hours	2021
Guest Lecturer, Rutgers Byrne Seminar: The Poetry of Astronomy	2016, 2019
Certificate, Seminar In Graduate Mentoring in Astronomy and Physics (SIGMA-P)	2018
Plenary Talk, Friends of Rutgers Astronomy	2017
Leadership Team, Parsons Community Outreach	2015 - 2016
Volunteer, Parsons Community Outreach	2013 - 2016
Teaching Assistant, Rutgers 343: Observational Radio Astronomy	2015
Public Talk, Rutgers Astronomical Society	2014
Certificate, Developing Educational Leaders among TAs in Physics (DELTA-P)	2013
Workshops and Other Experience (*Lead/SOC/LOC)	
*Flatiron Institute Workshop	New York, NY
Foundation Models for Astronomy	May 2025
*JSALT: Frederick Jelinek Memorial Summer Workshop	Baltimore, MD
Evaluating Large Language Models for Research Astronomy	June – Aug 2024
Aspen Winter Meeting	Aspen, CO
Diffuse cosmic backgrounds and the low surface brightness universe	Mar 2024
Galaxy Formation Meeting (Biosphere 2)	Tucson, AZ
Wide-Field Spectroscopy meets Galaxy Formation Theory	Mar 2023
*Kavli Institute of Theoretical Physics	Santa Barbara, CA
Building a Physical Understanding of Galaxy Evolution with Data-driven Astronomy	*

Pascal Institute Paris, France

The Self-Organized Star Formation Process

Sept 2019
Munich, Germany

MIAPP Topical Workshop

Nine Billion Years of Gas Evolution

July 2019

USAID Research & Innovation Fellowship

Cape Town, South Africa Sept - Nov 2016

Improving the LADUMA Pipeline Using MeerKAT Early Science Data

Piscataway, NJ

SKA Pathfinders HI Science Coordination Committee

Mar 2015

2015 PHISCC Workshop: HI Surveys Get Real Vatican Observatory Summer School

Castel Gandolfo, Italy

Galaxies, Near and Far, Young and Old

June 2014

NRAO Synthesis Imaging Workshop

Socorro, NM

14th Synthesis Imaging Workshop

May 2014

Professional Collaborations

4MOST Wide Area Vista Extragalactic Survey (WAVES/ORCHIDSS): Member

ALMA Lensing Cluster Survey (ALCS): Member

Dark Energy Spectroscopic Instrument (DESI): External Collaborator (LOWZ Program)

DECam Local Volume Exploration (DELVE): WIDE Survey WG Member

Deep Skies Lab: Contributor

HWO AI/ML WG: Data Processing; Gen AI; Mission Ops Task Forces

LADUMA: Pipeline & Calibration WG, Source-finding WG, and Ancillary Data WG Member

LSST-DA Galaxies Science Collaboration: Member

LSST-DA Informatics & Statistics Science Collaboration: Member

UniverseTBD: Member

Telescope Observing Proposals

Anglo-Australian Telescope (AAT)

CoI, N0331 (5 nights), N0334 (4 nights)

2015, 2017

Atacama Large Millimeter/submillimeter Array (ALMA)

PI, one proposal (9.4 hrs – partially observed in Cycle 7)

Cycles 7, 8

CoI, four proposals (120.9 hrs)

Cycles 2, 6, 7, 8

CTIO Blanco/DECam

CoI, 2023B-646244 (54 nights)

2023B

Gemini South/Flamingo2

CoI, Fast Turnaround (5.8 hrs)

2021B

Green Bank Telescope

CoI, 24B-384 (60 hrs)

2024B

Southern African Large Telescope (SALT)

PI, 2016-1-SCI-040 (3.9 hrs), 2015-2-SCI-052 (3.9 hrs), DDT (1.6 hrs)

2015-1 - 2016-1

CoI, 2017-1-MLT-014 (11.3 hrs), 2016-2-SCI-051 (20.4 hrs)

2016-2 - 2017-1

Very Large Array (VLA)

CoI, 19A-433 (10 hrs)

2019A

John F. Wu — Publication List

Names of students for whom I am the primary supervisor are underlined. Refereed machine learning papers are demarcated with a † symbol. For an up-to-date list of my publications, please see my ADS Library or my ORCID.

Journal Articles – First Author and Major Contributions (N=21)

- 40. Learning Galaxy Astrophysics from Interpretable Sparse Feature Networks Wu, J. F., 2025, ApJ, 980, 135.
- 39. pathfinder: A Semantic Framework for Literature Review and Knowledge Discovery in Astronomy Iyer, K. G., Yunus, M., O'Neill, C., Ye, C., et al. 2024, ApJS, 275, 38.
- 38. †Towards Interpretable Scientific Foundation Models: Sparse Autoencoders for Disentangling Dense Embeddings of Scientific Concepts
 O'Neill, C., Ye, C., Iyer, K., Wu, J. F., 2024, NeurIPS: FM4Science workshop, oral.
- 37. †Sparse autoencoders for dense text embeddings reveal hierarchical feature sub-structure Ye, C., O'Neill, C., Iyer, K., Wu, J. F., 2024, NeurIPS: Sci4DL workshop, poster.
- 36. †Estimating Dark Matter Halo Masses in Simulated Galaxy Clusters with Graph Neural Networks
 Garuda, N., Wu, J. F., Nelson, D., Pillepich, A., 2024, NeurIPS: ML4PS workshop, poster, arXiv:2411.12629.
- 35. †Conditional Diffusion Models for Generating Images of SDSS-Like Galaxies

 Yunus, M., Wu, J. F., Heckman, T. M., Holwerda, B. W., 2024, NeurIPS: ML4PS
 workshop, poster.
- 34. How the Galaxy-Halo Connection Depends on Large-Scale Environment Wu, J. F., Jespersen, C., Wechsler, R. H., 2024, ApJ, 976, 37.
- 33. Predicting dark matter halo masses from simulated galaxy images and environments Larson, A., Wu, J. F., Jones, C., 2024, ICML: AI4Science workshop.
- 32. Deep Learning Cosmic Ray Transport from Density Maps of Simulated, Turbulent Gas Bustard, C., Wu, J. F., 2024, MLS&T, 5, 1, 015028.
- 31. †Learning the galaxy-environment connection with graph neural networks Wu, J. F., Jespersen, C., 2023, ICML: ML4astro workshop, 1, poster, arXiv:2306.12327.
- Target Selection and Sample Characterization for the DESI LOW-Z Secondary Target Program
 Darragh-Ford, E., Wu, J. F., Mao, Y.-Y., Wechsler, R. H., et al. 2023, ApJ, 954, 149.
- Identification of Galaxy-Galaxy Strong Lens Candidates in the DECam Local Volume Exploration Survey Using Machine Learning
 Zaborowski, E., Drlica-Wagner, A., Ashmead, F., Wu, J. F., et al., 2023, ApJ, 954, 68.
- 28. Quantifying Roman WFI Dark Images with the Wavelet Scattering Transform Velicheti, P. D., Wu, J. F., Petric, A. O., 2023, PASP, 135, 1050.

- 27. † Identifying AGN host galaxies with convolutional neural networks

 Guo, Z., Wu, J. F., Sharon, C. E., 2022, NeurIPS: ML4PS workshop, 63, poster,
 arXiv:2212.07881.
- 26. Extending the SAGA Survey (xSAGA). I. Satellite Radial Profiles as a Function of Host-galaxy Properties
 - Wu, J. F., Peek, J. E. G., Tollerud, E. J., et al, 2022, ApJ, 927, 121.
- 25. Predicting the Spectrum of UGC 2885, Rubin's Galaxy with Machine Learning Holwerda, B. W., Wu, J. F., Keel, W. C., Young, J., et al., 2021, ApJ, 914, 142.
- 24. †Predicting galaxy spectra from images with hybrid convolutional neural networks Wu, J. F., Peek, J. E. G., 2020, NeurIPS: ML4PS workshop, 3, arXiv:2009.12318.
- Connecting Optical Morphology, Environment, and HI Mass Fraction for Low-Redshift Galaxies Using Deep Learning
 Wu, J. F., 2020, ApJ, 900, 148.
- 22. The Star-Forming Interstellar Medium of Lyman Break Galaxy Analogs Wu, J. F., Baker, A. J., Heckman, T. M., et al., 2019, ApJ, 887, 251.
- 21. Using convolutional neural networks to predict galaxy metallicity from three-colour images Wu, J. F., Boada, S., 2019, MNRAS, 484, 4683.
- 20. Herschel and ALMA Observations of Massive SZE-selected Clusters Wu, J. F., Aguirre, P., Baker, A. J., et al., 2018, ApJ, 853, 195.

Other Journal Articles and Refereed Papers (N=19)

- 19. Looking At the Distant Universe with the MeerKAT Array: the HI Mass Function in the Local Universe Kazemi-Moridani, A., Baker, A. J., Verheijen, M., et al. 2024, ApJ, accepted.
- 18. † The Multimodal Universe: Enabling Large-Scale Machine Learning with 70TBs of Astronomical Scientific Data
 Angeloudi, E., Angeloudi, J., Bowles, M., et al., 2024, NeurIPS: Datasets and Benchmarks, poster, arXiv:2412.02527.
- The SAGA Survey. V. Modeling Satellite Systems around Milky Way-mass Galaxies with Updated UniverseMachine
 Wang, Y., Nadler, E. O., Mao, Y.-Y., et al. 2024, ApJ, 917, 119.
- The SAGA Survey. IV. The Star Formation Properties of 101 Satellite Systems around Milky Way-mass Galaxies
 Geha, M., Mao, Y.-Y., Wechsler, R. H., et al. 2024, ApJ, 917, 118.
- 15. The SAGA Survey. III. A Census of 101 Satellite Systems around Milky Way-mass Galaxies Mao, Y.-Y., Geha, M., Wechsler, R. H., et al. 2024, ApJ, 976, 117.
- 14. Photometric redshifts probability density estimation from recurrent neural networks in the DECam local volume exploration survey data release 2 Teixeira, G., Bom, C. R., Santana-Silva, L., et al. 2024, A&C, 49, 100886.

- 13. ALMA Lensing Cluster Survey: Physical characterization of near-infrared-dark intrinsically faint ALMA sources at z = 2 4
 - Tsujita, A., Kohno, K., Huang, S., et al. 2024, arXiv::2406.09890
- 12. PHANGS-ML: Dissecting Multiphase Gas and Dust in Nearby Galaxies Using Machine Learning
 - Baron, D., Sandstrom, K. M., Rosolowsky, E., et al. 2024, 968, 24.
- 11. The cold interstellar medium of a normal sub- L^* galaxy at the end of reionization Valentino, F., Fujimoto, S., Giménez-Arteaga, C., et al. 2024, A&A, 485, 138.
- 10. Katachi: Decoding the Imprints of Past Star Formation on Present Day Morphology in Galaxies with Interpretable CNNs
 - Alfonzo, J. P., Iyer, K. G., Akiyama, M., et al. 2024, ApJ, 967, 152.
- 9. JWST constraints on the UV luminosity density at cosmic dawn: implications for 21-cm cosmology
 - Hassan, S., Lovell, C. C., Madau, P., et al. 2023, ApJL, 958, 3.
- 8. Identification of galaxy shreds in large photometric catalogs using Convolutional Neural Networks
 - Di Teodoro, E. M., Peek, J. E. G., Wu, J. F., 2023, AJ, 165, 123.
- 7. A variable active galactic nucleus at z = 2.06 triply-imaged by the galaxy cluster MACS J0035.4-2015
 - Furtak, L., Mainali, R., Zitrin, A., et al. 2023, MNRAS, 522, 5142.
- 6. A Machine Learning Approach to Enhancing eROSITA Observations Soltis, J., Ntampaka, M., Wu, J. F., et al., 2022, ApJ, 940, 60.
- The DECam Local Volume Exploration Survey Data Release 2
 Drlica-Wagner, A., Ferguson, P. S., Adamów, M., et al. 2022, ApJS, 261, 38.
- 4. LADUMA: The First Untargeted Detection of an OH Megamaser at z > 0.5 Glowacki, M., Collier, J. D., Kazemi-Moridani, A., et al., 2022, ApJL, 931, 7.
- 3. The DECam Local Volume Exploration Survey: Overview and First Data Release Drlica-Wagner, A., Carlin, J. L., Nidever, D. L., et al., 2021, ApJS, 256, 2.
- 2. ALMA Lensing Cluster Survey: an ALMA galaxy signposting a MUSE galaxy group at z=4.3 behind "El Gordo"
 - Caputi, K. I., Caminha, G. B., Fujimoto, S., et al., 2021, ApJ, 908, 146.
- 1. Galaxy Candidates at $z \sim 10$ in Archival Data from the Brightest of Reionizing Galaxies (BORG[z8]) Survey
 - Bernard, S. R., Carrasco, D., Trenti, M., Oesch, P. A., Wu, J. F., et al., 2016, ApJ, 827, 76.

Technical Reports – Major Contributions (N=2)

- 12. The Roman Data Monitoring Tool Schultz, W., Otor, O. J., **Wu**, **J. F.**, et al. 2024, Roman Technical Report, under review.
- Simulating Cosmic Rays for the Roman Wide Field Instrument
 Wu, J. F., Sanchez, J., Casertano, S., Desjardins, T., 2023, Roman Technical Report,
 Roman-STScI-000502.

Unrefereed Conference Papers and White Papers (N=9)

- 10. Disentangling Dense Embeddings with Sparse Autoencoders O'Neill, C., Ye, C., Iyer, K., **Wu, J. F.**, 2024, arXiv:2408.00657.
- 9. Designing an Evaluation Framework for Large Language Models in Astronomy Research Wu, J. F., Hyk, A., McCormick, K., Ye, C., et al. 2024, arXiv:2405.20389.
- 8. Constructing Impactful Machine Learning Research for Astronomy: Best Practices for Researchers and Reviewers
 Huppenkothen, D., Ntampaka, M., Ho, M., Fouesneau, M., et al. 2023, arXiv:2310.12528.
- 7. NANCY: Next-generation All-sky Near-infrared Community surveY
 Han, J. J.; Dey, A.; Price-Whelan, A. M. et al., 2023, Roman Core Community Survey
 White Papers.
- 6. Optical, Radio Continuum and HI Deep Spectroscopic Survey (ORCHIDSS) Duncan, K., Baker, A., Best, P., et al., The Messenger, 190, 25.
- 5. Roman Ultra Deep Field Koekemoer, A. M. et al. 2021, Roman Early-Definition Astrophysics Survey Opportunity.
- 4. Obscured AGN Hiding High Growth at the Cosmic Noon Petric, A. et al. 2021, Roman Early-Definition Astrophysics Survey Opportunity.
- 3. Herschel And ALMA Observations Of The ISM In Massive High-Redshift Galaxy Clusters Wu, J. F. et al. 2017, Galaxy Evolution Across Time, 51.
- 2. LADUMA: Looking at the Distant Universe with the MeerKAT Array
 Blyth, S. et al. 2016, Proceedings of MeerKAT Science: On the Pathway to the SKA, 4.

POPULAR SCIENCE AND OTHER (N=1)

1. Effective use of machine learning to empower your research Wu, J. F., 2022, Times Higher Education – Campus, Feature Article.