IDENTIFYING INFORMATION:

NAME: Feng, Qi

POSITION TITLE: Assistant Professor

PRIMARY ORGANIZATION AND LOCATION: University of Utah, Salt Lake City, Utah, United States

Professional Preparation:

ORGANIZATION AND LOCATION	DEGREE (if applicable)	RECEIPT DATE	FIELD OF STUDY
Barnard College, New York, New York, United States	Postdoctoral Fellow	01/2019 - 03/2022	Physics
Columbia University, New York, New York, United States	Postdoctoral Fellow	08/2017 - 01/2019	Physics
McGill University, Montreal, Quebec, QC, Canada	Postdoctoral Fellow	08/2015 - 07/2017	Physics
Purdue University, West Lafayette, Indiana, United States	PHD	08/2015	Physics
University of Science and Technology of China, Anhui, Not Applicable, N/A, China	BS	07/2009	Physics and Astronomy

Appointments and Positions

2024 - present Assistant Professor, University of Utah, Department of Physics & Astronomy, Salt Lake City, Utah, United States

2022 - 2023 Astrophysicist, Smithsonian Astrophysical Observatory, Tucson, Arizona, United States

Products

Products Most Closely Related to the Proposed Project

1. Acharyya A, et al. Multiwavelength Observations of the Blazar PKS 0735+178 in Spatial and Temporal Coincidence with an Astrophysical Neutrino Candidate IceCube-211208A. The Astrophysical Journal. 2023 August 23; 954(1):70-. Available from: https://iopscience.iop.org/article/10.3847/1538-4357/ace327 DOI: 10.3847/1538-4357/ace327
2. Adams C, et al. Multiwavelength Observations of the Blazar VER J0521+211 during an Elevated TeV Gamma-Ray State. The Astrophysical Journal. 2022 June 27; 932(2):129-. Available from: https://iopscience.iop.org/article/10.3847/1538-4357/ac6dd9 DOI: 10.3847/1538-4357/ac6dd9
3. Acharyya A, et al. VERITAS and Fermi-LAT Constraints on the Gamma-Ray Emission from Superluminous Supernovae SN2015bn and SN2017egm. The Astrophysical Journal. 2023 March 03; 945(1):30-. Available from: https://iopscience.iop.org/article/10.3847/1538-4357/acb7e6 DOI: 10.3847/1538-4357/acb7e6
4. Mori K, An H, Feng Q, et al. Multiwavelength Observations of 2HWC J1928+177: Dark Accelerator or New TeV Gamma-Ray Binary?. The Astrophysical Journal. 2020 July 09; 897(2):129-. Available from: https://iopscience.iop.org/article/10.3847/1538-4357/ab9631 DOI: 10.3847/1538-4357/ab9631

5. Aartsen M, et al. Multimessenger observations of a flaring blazar coincident with high-energy neutrino IceCube-170922A. Science. 2018 July 13; 361(6398):-. Available from: https://www.science.org/doi/10.1126/science.aat1378 DOI: 10.1126/science.aat1378

Other Significant Products, Whether or Not Related to the Proposed Project

1. Adams C, et al. Status of the development of NUV SiPMs for INFN optical modules for the SCT medium sized telescope proposed for the CTA observatory. Nuclear Instruments and Methods in Physics Research Section A: Accelerators, Spectrometers, Detectors and Associated Equipment. 2020 December; 982:164486-. Available from: https://linkinghub.elsevier.com/retrieve/pii/S0168900220308834 DOI: 10.1016/j.nima.2020.164486
2. Adams C, et al. Alignment of the optical system of the 9.7-m prototype Schwarzchild-Coulder Telescope. In:Adams C, et al. , editors. Ground-based and Airborne Telescopes VIII. Ground-based and Airborne Telescopes VIII; ; Online Only, United States. SPIE; c2020. Available from: https://www.spiedigitallibrary.org/conference-proceedings-of-spie/11445/2564653/Alignment-of-the-optical-system-of-the-97-m-prototype/10.1117/12.2564653.full DOI: 10.1117/12.2564653
3. Valverde J, et al. A Decade of Multiwavelength Observations of the TeV Blazar 1ES 1215+303: Extreme Shift of the Synchrotron Peak Frequency and Long-term Optical–Gamma-Ray Flux Increase. The Astrophysical Journal. 2020 March 17; 891(2):170-. Available from: https://iopscience.iop.org/article/10.3847/1538-4357/ab765d DOI: 10.3847/1538-4357/ab765d
4. Abeysekara A, et al. Multiwavelength Observations of the Blazar BL Lacertae: A New Fast TeV Gamma-Ray Flare. The Astrophysical Journal. 2018 March 28; 856(2):95-. Available from: https://iopscience.iop.org/article/10.3847/1538-4357/aab35c DOI: 10.3847/1538-4357/aab35c
5. Abeysekara A, et al. A SEARCH FOR SPECTRAL HYSTERESIS AND ENERGY-DEPENDENT TIME LAGS FROM X-RAY AND TeV GAMMA-RAY OBSERVATIONS OF Mrk 421. The Astrophysical Journal. 2016 December 22; 834(1):2-. Available from: https://iopscience.iop.org/article/10.3847/1538-4357/834/1/2 DOI: 10.3847/1538-4357/834/1/2

Synergistic Activities

1. Student Mentorship: Co-mentored four graduate students, eight undergraduate students, and four high school students during their research and studies at Barnard College and Columbia University. This effort helped three undergraduate students present their work at the APS and AAS meetings.
2. Experiment Operations: Oversaw the operation of the VERITAS experiment as the deputy operations manager from 2022 to 2023. Upgraded the automated next-day analysis software with up to 40% improvement in sensitivity as part of this effort.
3. Service to Research Community: Currently serving as the chair of the seven-member Time Allocation Committee of the VERITAS Collaboration, responsible for reviewing proposals, allocating observing time, and responding to target-of-opportunity requests from 2023 to 2024.
4. Software Development: Contributed in the early stages to the development of CTLearn, a deep learning code library specifically designed for the analysis of data from Cherenkov telescopes. Proposed and implemented into CTLearn a novel technique to convert images captured with hexagonal pixels into a conventional square pixel matrix.

5. Public Outreach: One of the main contributors that led the Muon Hunter Classic project, a citizen-science project hosted on the Zooniverse platform. This project brought gamma-ray science to more than eight thousand members of the general public.

Certification:

When the individual signs the certification on behalf of themselves, they are certifying that the information is current, accurate, and complete. This includes, but is not limited to, information related to domestic and foreign appointments and positions. Misrepresentations and/or omissions may be subject to prosecution and liability pursuant to, but not limited to, 18 U.S.C. §§ 287, 1001, 1031 and 31 U.S.C. §§ 3729-3733 and 3802.

Certified by Feng, Qi in SciENcv on 2023-11-20 15:39:29