Jeff Huang

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EDUCATION

McGill University Sept 2024 -
PhD in Physics

University of Amsterdam Sep 2022 - July 2024
Master of Science, Physics & Astronomy: Astronomy & Astrophysics

McGill University Sep 2018 - May 2022
Bachelor of Science, Honours Physics

PUBLICATIONS

Refereed

[1] D, M Hewitt, et al. (**incl. J. Huang**). A Repeating Fast Radio Burst Source in a Low-Luminosity Dwarf Galaxy. in prep.

[2] D. Konijn, et al. (**incl. J. Huang**). Burst Properties of the hyperactive repeating FRB 20220912A. Monthly Notices of the Royal Astronomical Society, Volume 534, Issue 4, pp.3331-3348 [doi]

[3] E. Thygesen, et al. (**incl. J. Huang**). Globular Cluster Ultraluminous X-ray Sources in the Furthest Early-Type Galaxies. Monthly Notices of the Royal Astronomical Society, Volume 518, Issue 3, January 2023, Pages 3386–3396 [doi]

[4] E. Barbisan, **J. Huang**, et al. Using machine learning to identify extragalactic globular cluster candidates from ground-based photometric surveys of M87. Monthly Notices of the Royal Astronomical Society, Volume 514, Issue 1, July 2022, Pages 943–956 [doi]

Non-refereed

[1] **J. Huang**, Y. Sun, K. Dage, D. Haggard. Probing M87 Globular Clusters for Flaring Ultraluminous X-Ray Sources. Research Notes of the AAS, Volume 5, Number 6, June 2021 [doi]

RESEARCH EXPERIENCE

PhD Sep 2024 - Present
Astroflash Group, Anton Pannekoek Institute, University of Amsterdam
Advisor(s): Prof. Jason W.T. Hessels

- Observation and analysis of repeating Fast Radio Bursts using Nançay Radio Telescope.
- Facilitating the launch, operation and scientific analyses of the CHIME/Slow Survey.

Master's Thesis Sep 2023 - Aug 2024
Astroflash Group, Anton Pannekoek Institute, University of Amsterdam
Advisor(s): Prof. Jason W.T. Hessels

- Observation and analysis of repeating Fast Radio Bursts using Nançay and Westerbork Telescopes.
- Resulted in contribution to a refereed publication.

Bachelor's Honours Research Thesis Sep 2021 - May 2022

McGill Extreme Gravity & Accretion Group, McGill University

Advisor(s): Prof. Daryl Haggard & Dr. Kristen Dage

- Simulated globular clusters using stellar population synthesis through HST filters and analysed HST data.
- Resulted in contribution to a refereed publication in MNRAS.

NSERC Undergraduate Summer Research Project May - Aug 2021

McGill Extreme Gravity & Accretion Group, McGill University

Advisor(s): Prof. Daryl Haggard & Dr. Kristen Dage

- Developed a novel method of identifying extragalactic globular cluster candidates using machine learning algorithms on ground-based photometric surveys.
- Resulted in first co-authored refereed publication to MNRAS. Contributed to Methods and Results sections of the publication.

Undergraduate Research Project Jan - Apr 2021

McGill Extreme Gravity & Accretion Group, McGill University

Advisor(s): Prof. Daryl Haggard & Dr. Kristen Dage

- Searching for ultra-luminous x-ray flaring in M87's globular clusters with analysis of chandra x-ray data.
- Resulted in first co-authored research note. Contributed to both analysis and writing towards the publication.

AWARDS

NSERC Undergraduate Summer Research Award - $7500 May 2021

Natural Sciences and Engineering Research Council of Canada, Government of Canada

FRQNT NSERC Supplement - $1500

Fonds de recherche du Québec - Nature et Technologies, Government of Québec May 2021