

Mehrnoosh Tahani

Postdoctoral Scholar, Physics

Bio

BIO

Mehrnoosh Tahani currently holds a Banting fellowship (sponsored by the government of Canada) hosted at Stanford University and a KIPAC fellowship. She was a research associate (Covington fellow) with the National Research Council Canada at the Dominion Radio Astrophysical Observatory from Sep 2019 to Sep 2022. She received her PhD in 2019 from the University of Calgary.

Her research interests include magnetic fields, molecular clouds, star formation, Faraday rotation, dust polarization, interstellar medium, radio astronomy, magnetohydrodynamic simulations, the 3D shape of magnetic fields of star-forming clouds, and novel techniques for probing interstellar magnetic fields. She is involved in international collaborations such as BISTRO, CCAT-prime, JCMT-transients, and POSSUM.

Mehrnoosh has held teaching positions as a sessional instructor, guest lecturer, and graduate teaching assistant, and has received teaching awards. Her current service roles include co-organizing the Open Cultural Astronomy Forum seminars (<https://openculturalastronomyforum.github.io/>).

Publication list: https://ui.adsabs.harvard.edu/public-libraries/3whtBFLQRRW_e_qRFf9Z-g

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- Susan Clark, Postdoctoral Faculty Sponsor

LINKS

- Publications: https://ui.adsabs.harvard.edu/public-libraries/3whtBFLQRRW_e_qRFf9Z-g

Publications

PUBLICATIONS

- **Filamentary Network and Magnetic Field Structures Revealed with BISTRO in the High-mass Star-forming Region NGC 2264: Global Properties and Local Magnetogravitational Configurations** *ASTROPHYSICAL JOURNAL*
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2024; 962 (2)
- **Tomographic Imaging of the Sagittarius Spiral Arm's Magnetic Field Structure** *ASTROPHYSICAL JOURNAL*
Doi, Y., Nakamura, K., Kawabata, K. S., Matsumura, M., Akitaya, H., Coude, S., Rodrigues, C. V., Kwon, J., Tamura, M., Tahani, M., Magalhaes, A., Santos-Lima, R., Angarita, et al
2024; 961 (1)
- **The JCMT BISTRO Survey: Studying the Complex Magnetic Field of L43** *ASTROPHYSICAL JOURNAL*
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- **Extragalactic Magnetism with SOFIA (SALSA Legacy Program). V. First Results on the Magnetic Field Orientation of Galaxies** *ASTROPHYSICAL JOURNAL*

Borlaff, A. S., Lopez-Rodriguez, E., Beck, R., Clark, S. E., Ntormousi, E., Tassis, K., Martin-Alvarez, S., Tahani, M., Dale, D. A., del Moral-Castro, I., Roman-Duval, J., Marcum, P. M., Beckman, et al
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- **First BISTRO Observations of the Dark Cloud Taurus L1495A-B10: The Role of the Magnetic Field in the Earliest Stages of Low-mass Star Formation** *ASTROPHYSICAL JOURNAL*

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2023; 946 (2)

- **JCMT BISTRO Observations: Magnetic Field Morphology of Bubbles Associated with NGC 6334** *ASTROPHYSICAL JOURNAL*

Tahani, M., Bastien, P., Furuya, R. S., Pattle, K., Johnstone, D., Arzoumanian, D., Doi, Y., Hasegawa, T., Inutsuka, S., Coude, S., Fissel, L., Chen, M., Poidevin, et al
2023; 944 (2)