Stanford



# Tara Dacunha

Ph.D. Student in Physics, admitted Autumn 2022

## Publications

### PUBLICATIONS

- **Memoirs of Mass Accretion: Probing the Edges of Intracluster Light in Simulated Galaxy Clusters** *ASTROPHYSICAL JOURNAL*
  Dacunha, T., Mansfield, P., Wechsler, R. H.
  2025; 994 (2)
- **The Fallibility of Equipartition Magnetic Field Strengths from Synchrotron Emission Using Synthetically Observed Galaxies** *ASTROPHYSICAL JOURNAL*
  Dacunha, T., Martin-Alvarez, S., Clark, S. E., Lopez-Rodriguez, E.
  2025; 980 (2)
- **Extragalactic Magnetism with SOFIA (SALSA Legacy Program). VII. A Tomographic View of Far-infrared and Radio Polarimetric Observations through MHD Simulations of Galaxies** *ASTROPHYSICAL JOURNAL*
  Martin-Alvarez, S., Lopez-Rodriguez, E., Dacunha, T., Clark, S. E., Borlaff, A. S., Beck, R., Montero, F., Jung, S. L., Devriendt, J., Slyz, A., Roman-Duval, J., Ntormousi, E., Tahani, et al
  2024; 966 (1)
- **Connecting galaxy evolution in clusters with their radial profiles and phase space distribution: results from the IllustrisTNG hydrodynamical simulations** *MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY*
  Dacunha, T., Belyakov, M., Adhikari, S., Shin, T., Goldstein, S., Jain, B.
  2022; 512 (3): 4378-4393
- **What does a cosmological experiment really measure? Covariant posterior decomposition with normalizing flows** *PHYSICAL REVIEW D*
  Dacunha, T., Raveri, M., Park, M., Doux, C., Jain, B.
  2022; 105 (6)
- **The mass and galaxy distribution around SZ-selected clusters** *MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY*
  Shin, T., Jain, B., Adhikari, S., Baxter, E. J., Chang, C., Pandey, S., Salcedo, A., Weinberg, D. H., Amsellem, A., Battaglia, N., Belyakov, M., Dacunha, T., Goldstein, et al
  2021; 507 (4): 5758-5779