

**Mushtukov, A. A., Ingram, A., Suleimanov, V. F., DiLullo, N., Middleton, M., Tsygankov, S. S., ... & Portegies Zwart, S. (2024). Magnetospheric flows in X-ray pulsars—I. Instability at super-Eddington regime of accretion. *Monthly Notices of the Royal Astronomical Society*, 530(1), 730-742.**

Responsible for code simulating gravitational attraction and centrifugal force. Also helped write and edit various sections.

**Wang, Qinan, et al. "Flight of the Bumblebee: the Early Excess Flux of Type Ia Supernova 2023bee Revealed by TESS, Swift, and Young Supernova Experiment Observations." *The Astrophysical Journal* 962.1 (2024): 17.**

Data gathering and processing with our (the Thacher School Astronomy Program's) 0.7 meter robotic observatory and proprietary reduction pipeline. Also helped write and edit various sections.

**Singh, Mridweeka, et al. "Observational Properties of a Bright Type Iax SN 2018cni and a Faint Type Iax SN 2020kyg." *The Astrophysical Journal* 953.1 (2023): 93.**

Data gathering and processing with our (the Thacher School Astronomy Program's) 0.7 meter robotic observatory and proprietary reduction pipeline. Also helped write and edit various sections.

**Zhou, H., DiLullo, N., Scheer, J., Yang, G., Swift, J., Foley, R., & Coulter, D. (2023). When Opportunity Knocks: Latest Results from the Thacher Supernova Search and Followup Program. *Bulletin of the AAS*, 55(6). Retrieved from <https://baas.aas.org/pub/2023n6i208p01>**

Abstract submitted to the American Astronomical Society for my group's presentation at AAS 242. I worked on our proprietary data reduction pipeline, and built the first version of an image classifier for the UCSC/Thacher joint supernova search project.