

Curriculum Vitae

Julian Shapiro

Email: c26js@dalton.org

Web: julianastro.com

The Dalton School, 108 E. 89th St., New York, NY 10128, USA

Biography

I am an astronomer researching supernovae and supernova remnants, planetary nebulae, active galactic nuclei, and quasars, and a high school junior at the Dalton School in New York. My work involves survey science and analysis of new objects through optical and spectroscopic imaging. In 2024-25, I conducted [O III] surveys in the northern and southern galactic planes. Through the surveys, I discovered a large quasar light echo and collected follow-up observations using the SALT telescope's slit spectrograph, contributing to the understanding this very rare class of object. The survey also identified many new planetary nebulae and supernova remnants, expanding the known population and understanding of their varied morphologies. I also collaborated with the MDW H α Sky Survey team at Columbia University, combining efforts across wavelengths to identify and model these objects.

Experience

August 2024 – present

Collaborator with the MDW H α Sky Survey team at Columbia University

September 2023 – present

Deep Sky Collective/New Horizons deep imaging research team member

2021 – present

Independent astronomer; survey science in [O III] identifying and analyzing planetary nebulae, supernova remnants; AGN/Quasar research

Papers in Preparation

2025 Shapiro et al. in prep.: "Discovery of an Exceptionally Large Quasar Light Echo Candidate"

2025 Shapiro et al. in prep.: TBD

Awards

2024 Sir Patrick Moore Prize for Achievements in Astronomy

2024 National Young Astronomy Award Runner-up

2024 Remote Astro-imaging Prize

Contributed Talks

2025 Black Hole Astrophysics, APS Global Physics Summit, CA, USA

2025 AGN/Quasars, AAS 245, MD, USA

Skills

Experience in planning and leading survey science efforts

Experience with obtaining, processing, and analyzing astronomical spectra

Programming knowledge in python for astronomy applications

Outreach

2025 Invited Speaker at Amateur Observer's Society New York

2024 Invited Speaker at Astronomical League Annual Meeting

2024 Founder and Head of Dalton Astronomy Club