



## Patrick Shober

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### Brief Summary

Since people started studying meteorites, scientists have attempted to interpret their petrology and mineralogy in order better understand what kind of bodies they came from. Although, this is difficult because unlike a terrestrial rock you do not have access to the outcrop. The Near Earth Object (NEO) population is thought to be the source of all meteorites found on Earth. By using the orbital data collected from the Desert Fireball Network, my work will hopefully clarify the connections that exist between meteorites and their source NEOs. This orbital analysis is primarily done by employing a rigorous integration technique along with several statistical methods.

**Education:** B.S. Case Western Reserve University

**Research interests:** celestial mechanics, petrology, ISRU, impact hazard mitigation

**Thesis title:** Meteoroid Orbital Analysis: Connecting Meteorites and Asteroids

**Supervisors:** Prof. Phil A. Bland, Assoc. Prof. Gretchen K. Benedix, Dr. Ellie K. Sansom

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