



Research Field: GEOCHEMISTRY OF SPACE MATERIALS

Focused Field: GEOCHRONOLOGY & MINERAL IDENTIFICATION

SHORT BIO

I began my academics studying Applied Physics at Purdue University. My interests have always been quite diverse, so I also graduated with minor degrees in mathematics, astronomy, and earth and atmospheric sciences.

After graduating, I joined a combined Masters and PhD program at the Lunar and Planetary Science Lab at the University of Arizona, where I studied the geochronology and noble gases in meteorites and lunar samples.

Most recently, I joined the State Key Laboratory at Macau University of Science and Technology as a postdoctoral researcher. I am a member of the cosmochemistry group and we have developed the laboratory equipment to provide state of the art analysis of planetary materials including various meteorites and samples that have been returned from space missions, such as Chang'e 5.

Postdoc

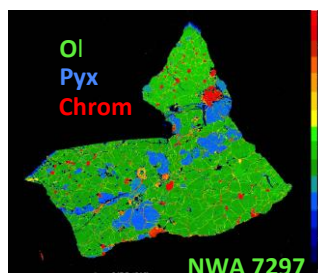
Sky Beard



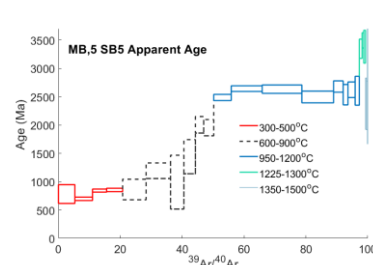
PhD: Planetary Science – University of Arizona

Masters: Planetary Science (Geology) – University of Arizona

Undergraduate Degree: Applied Physics- Purdue University



Brachinite X-Ray Map



Chelyabinsk Impact Age– Beard in prep. 2021

KEY PUBLICATIONS (first author)

Beard S.P., and Swindle T.D. 2017. Search for Evidence of Source Event Grouping Among Ureilites. **Meteoritics & Planetary Science.**

Beard S.P., et al. 2013.. Ar-Ar Analysis of Almahata Sitta Ordinary Chondrites. **Lunar and Planetary Science Conference.**

Beard S.P., et al. submitted 2020. Ar-Ar and Pb-Pb Ages with Re-evaluation of Chelyabinsk's Impact Chronology. **Meteoritics & Planetary Science.**

PROFESSIONAL EXPERIENCE

2019 – Present – Macau University of Science and Technology, Macao (China) – Post Doctoral

2011 – 2019 – University of Arizona Lunar and Planetary Laboratory (USA) – PhD Student

2011 – 2011 – NASA Jet Propulsion Laboratory USRP (USA) – Internship

2010 – 2010 – NASA Planetary Geology Research Program (USA) – Internship

Research Interest and Technical Experience

Noble Gas Mass Spectrometry – *gas separations, dilutions, analysis (He, Ne, Ar, Kr, Xe) of meteorites and lunar materials*

Fourier-Transform Infrared Spectroscopy of planetary ice analogues

Raman Mass Spectrometry and Electron Microprobe Mapping of meteorites and lunar materials

Interested in chronology, and combining this information with other geochemical results to better understand the context and origins of materials