

Arizona State University

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School of Earth and Space Exploration

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Research Interests

Stars, in general and especially their evolution, final fate, and nucleosynthesis.

Chemical evolution, growth of every isotope at every point in spacetime.

Astrobiology, synthesis and delivery of bioessential elements to habitable systems.

Gamma-ray astronomy, from radioactive isotopes.

Neutrino astronomy, in general and especially from pre-supernova stars.

Community driven, open-knowledge, software instruments.

Recent Appointments

2022 – Associate Editor-in-Chief, American Astronomical Society [Journals](#)2019 – Senior Lead Editor, American Astronomical Society [Journals](#)2016 – Lead Editor, American Astronomical Society [Journals](#)2009 – Scientific Editor, American Astronomical Society [Journals](#)

2008 – Professor, SESE, ASU

Recent Honors

2015 [Simons Fellow](#) in Theoretical Physics2014 [Fellow](#), American Physical Society2013 Student Student Cluster Competition Prize, [Supercomputing](#)

Recent Research Funding

Since 2008: \$26.5M, \$7.3M to ASU

2022 – 2025 NASA PI \$476K, *Probing The Interior Composition Of White Dwarfs*2019 – 2024 NSF Co-PI \$2M, *AccelNet-WOU: International Research Network ...*2017 – 2022 NSF PI \$2.3M, *Modules for Experiments ... (MESA)*2014 – 2022 NSF Co-PI \$11.2M, *Physics Frontiers Center, JINA-CEE*

Recent Education and Outreach Activities

2019 – Principal Content Provider, American Astronomical Society [YouTube](#) Channel2011 – 2022 Director & Lecturer, [MESA Summer School](#), UC Santa Barbara2015 – 2018 Largest [college-credit](#) eligible astronomy course in the world, ~10,000 students/yrAugust 2015 First [college-credit](#) eligible MOOC in the world

Publication Summary

