Mara E. Karageozian Email: <u>mekarage@asu.edu</u> <u>Personal Website</u> <u>LinkedIn</u>

EDUCATION	
Ph.D. Candidate, Geological Sciences	2018-present
School of Earth and Space Exploration	
Arizona State University, Tempe AZ	
Advisor: Dr. Thomas Sharp	
RISES Science Policy Certificate Program	2021-present
School for the Future of Innovation in Society	Ĩ
Arizona State University, Tempe AZ	
Advisor: Dr. Ira Bennet	
BS in Geology, Honors	December 2017
Department of Environmental Science and Geology	Detember 2017
Wayne State University, Detroit, MI	
Advisor: Dr. Sarah Brownlee	
WORK EXPERIENCE	
Mineralogy Graduate TA	2019-2021
Employed by Arizona State University for (3) spring semesters	2017-2021
Supervisor: Dr. Thomas Sharp	
Introductory Geology Graduate TA	2018
Employed by Arizona State University for the fall semester of 2018	2010
Supervisor: Dr. Julia Johnson	
Mineralogy Undergraduate TA	2016-2017
Employed by Wayne State University for the fall semesters of 2016 ar	
Supervisors: Dr. Sarah Brownlee and Prof. David Dougherty	ld 2017
Potrology Undergraduate TA	2017-2018
Petrology Undergraduate TA Employed by Wayne State University for the winter semesters of 2017	
Supervisors: Dr. Valentina Taranovic and Prof. David Dougherty	and 2018
RESEARCH	
Graduate Research	
Advised by Dr. Thomas Sharp at Arizona State University, Tempe, AZ	7,
The project uses primitive meteorites and shock mineralogy to constra	
earliest impact history within our solar system. Uses techniques of pet	
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microscopy, spectroscopy, and isotopic dating.

Advised by Dr. Thomas Sharp at Arizona State University, Tempe, AZ. The project uses impacted meteorites and shock mineralogy to examine the migration of K and Ar and their effect on Ar-Ar isotopic dating techniques. Uses techniques of petrography, microscopy, spectroscopy, and isotopic dating.

Advised by Dr. Christy Till at Arizona State University, Tempe, AZ. The project uses model-driven petrologic techniques and stellar chemical abundance data outputs to analyze the effect of compositional variation on likely exoplanet mantle crystallization.

Advised by Dr. Ira Bennet at Arizona State University, Tempe, AZ. The project evaluates the policy dimensions of space research and exploration around themes of equity, tacit knowledge systems, and the social contract for science.

Undergraduate Research

Advised by Dr. Sarah Brownlee at Wayne State University, Detroit, MI. The project combined EBSD and AMS measurements on rock samples collected in Chester Gneiss dome in Chester, VT, to correlate seismic and magnetic anisotropy with respect to deformational fabric.

CONFERENCES & LECTURES

Meteoritical Society Annual Meeting (MetSoc) Accepted abstract for presentation	2022
Science Outside the Lab (SOtL) NCI-SW funded 2-week science policy workshop	2022
Guest Lecture – Meteorites and Cosmochemistry Wayne State University – GEL 326	Dec. 2021
Lunar and Planetary Science (LPSC) Accepted abstract for oral presentation	2021
Guest Lecture – Meteorites and Cosmochemistry Wayne State University – GEL 326	Dec. 2020
Lunar and Planetary Science (LPSC) Accepted abstract for presentation (*Cancelled due to 2020 COVID-19 pandemic)	2020
Geological Society of America (GSA) Professional Development.	2019
Lunar and Planetary Science (LPSC) Accepted abstract for presentation	2019

American Geophysical Union (AGU)

Poster presentation

<u>PUBLICATIONS</u> Conference Abstracts

"Constraining Shock Effects on the K-Ar System in Meteorites: Anomalous Ages and Implications for Shock Age Interpretation." MetSoc, Summer 2022. M. E. Karageozian, T. Sharp, C. McDonald, M. Van Soest.

"When is anisotropy of magnetic susceptibility (AMS) a useful proxy for seismic anisotropy?". AGU, Fall 2021. SJ Brownlee, ME Karageozian.

"Anomalous ⁴⁰Ar/³⁹Ar shock ages in Mbale: nonintuitive K and Ar behavior, implications for the interpretations of shock ages in shocked meteorites." LPSC, Spring 2021. M. E. Karageozian, T. Sharp, M. Van Soest, C. McDonald

"Anomalous ⁴⁰Ar/³⁹Ar ages in Mbale: Implications for the interpretations of shock ages in shocked meteorites." LPSC, Spring 2020. M. E. Karageozian, T. Sharp, M. Van Soest, C. McDonald.

"Crescent-shaped feature in Eucrite NWA 12282: Implications for the impact history of Vesta.". LPSC, Winter 2019. Karageozian ME, Dillon SM, Fitch RT, Sedler MA, Teichert ZG.

"Modeling the geophysical signatures of gneiss dome exhumation in the northeast United States." AGU, Fall 2018. SJ Brownlee, S Saif, ME Karageozian.

"Comparing anisotropy of magnetic susceptibility (AMS) tensors with deformation fabric and elastic tensors in the Chester gneiss dome, southeast VT." AGU, Fall 2017. ME Karageozian, SJ Brownlee, JM Feinberg, A Biedermann.

White Papers

"Tools for Fostering Equity and Inclusion in SESE: Sustainable Change at Every Level of Academia" Mara Karageozian Dec. 2020. <u>Paper link</u>.

GRANTS AND PROPOSALS

Graduate

2022 Vivian Ford Graduate Fellowship

2022

"Meteorite Shock Effects on the 40Ar/39Ar Isotopic System: Implications for Impact Age Interpretations". Accepted, fully funded.

NASA FINESST2022"Meteorite Shock Effects on the 40Ar/39Ar Isotopic System: Implications for Impact Age Interpretations." Declined.
NASA FINESST2021"Connecting 40Ar39/Ar geochronology with specific shock effects in S6 meteorites: An investigation of non-intuitive behavior of K and Ar and anomalous ages". Declined.
School of Earth and Space Exploration JEDI Seed Grant2021"Building Resources and Aid for SESE's TAs." Accepted, fully funded.
SERVICE & AWARDSGraduateFaculty Recruitment Task Force MemberFaculty Recruitment Task Force MemberGraduate student participant on the faculty search committee for the School of Earth & Space Exploration at Arizona State University
SESE Graduate Student Council Member, ASU2020-2022 termElected for 2021/22 term as the Vice PresidentElected for 2020/21 term as the Graduate Student Advocate.
SESE Inclusive Community Committee Member, ASU2020-presentGraduate Student Member focused on implementing the SESE JEDI Task Force's Strategic Plan.2020-present
Virtual Mineralogy Content Creator, YouTube2021-presentVirtual content creation for the study and identification of minerals, in partnership with the GLG 321 Mineralogy course at ASU. Channel page.2021-present
Open House Committee, ASU2019-2022Social Media Coordinator for the Open House events for the School of Earth and Space Exploration.2019-2022
Letters to a Pre-Scientist2019-2021Pen-pal-style letters to a middle school student over an entire school year.It is aimed at young science communication and education on science as an occupation and career path.2019-2021
Undergraduate2017-2018STEM Day. Wayne State University2017-2018Science communication with middle school students emphasizes rock physics and hands-on learning.2017-2018

American Institute for Professional Geologists Student chapter member at Wayne State University, Detroit, MI. President of the chapter from fall 2016 - summer 2017. During presidency, awarded "Chapter of the Year."

2015-2018