

# Nathan J. McGregor

University of California, Santa Cruz  
Earth and Planetary Sciences  
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Pronouns: he/him

## Education

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### University of California, Santa Cruz

Ph.D., Earth and Planetary Sciences, 2021-

### Boise State University

B.S., Physics and Astrophysics, 2021

B.A., Political Science, 2012

## Research

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### University of California, Santa Cruz, Earth and Planetary Sciences

Graduate Student Researcher, 2021-

Advisors: Profs. Francis Nimmo and Myriam Telus

### Boise State University, Physics

Undergraduate Student Researcher, 2011-2012 & 2019-2021

Advisor: Prof. Daryl Macomb

### University of Hawai'i at Mānoa, Oceanography

Undergraduate Student Researcher, 2012-2013

Advisor: Prof. Angelos Hannides

## Teaching

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### University of California, Santa Cruz, Earth and Planetary Sciences

Teaching Assistant, 2022-

### Boise State University, Physics

Teaching Assistant, 2019-2021

Lab Instructor, 2019-2021

### Boise State University, Mathematics

Teaching Assistant, 2011-2012 & 2013

## Publications

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**McGregor, N. J.**, Nimmo, F., Gillmann, C., Golabek, G., Plattner, A. & Conrad, J. W. (2023). Inferences on the mantle structure and tectonic regime of Venus from surface deformation observations. *In prep.*

## Conference Abstracts

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**McGregor, N. J.**, Nimmo, F., Gillmann, C., Golabek, G., Plattner, A. & Conrad, J. W. (2023). Evidence for a Heat-Pipe Venus. UC Santa Cruz Graduate Symposium.

**McGregor, N. J.**, Nimmo, F., Gillmann, C., Golabek, G., Plattner, A. & Conrad, J. W. (2023). Evidence for a Heat-Pipe Venus. UC Santa Cruz Postdoc Symposium.

**McGregor, N. J.**, Nimmo, F., Gillmann, C., Golabek, G., Plattner, A. & Conrad, J. W. (2023). Constraining Venus' Convection Regime using Baltis Vallis Topography. European

- Geosciences Union General Assembly, #9783.
- McGregor, N. J.**, Nimmo, F., Gillmann, C., Golabek, G., Plattner, A. & Conrad, J. W. (2023). Constraining Venus' Convection Regime using Baltis Vallis Topography. Lunar and Planetary Science Conference, #1724.
- Calderon, T., Jorge-Chavez, F., **McGregor, N. J.**, & Telus, M. (2022). Investigating Mn Rims of Chondrule Meteorites. UC Santa Cruz Research Experiences for Undergraduates Program on Sustainable Materials.
- McGregor, N. J.** & Macomb, D. (2020). Photometric Monitoring of MRK 501: A Model for Measuring the Optical Variability of BL Lacs. Idaho Conference on Undergraduate Research, #131.
- McGregor, N. J.** & Macomb, D. (2020). Photometric Monitoring of MRK 501: A Model for Measuring the Optical Variability of BL Lacs. Boise State University Research Showcase, #119.
- McGregor, N. J.** & Macomb, D. (2012). Identifying X-Ray Sources in Local Group Galaxies Using Fourier Analysis of Time Series Data. Boise State University Undergraduate Research and Scholarship Conference, #22.

## Funding

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- Inclusive Leadership Fellowship, 2020-2021 (\$8,850)  
Higher Education Research Council Fellowship, 2020 (\$3,000)  
Social Impact Fellowship, 2014 (\$4,000)  
Student Research Initiative Fellowship, 2014 (\$2,000)

## Invited Talks

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- 2022 Oct: Motivating Queer Youth in STEM, Central California Queer Youth Summit  
2022 Jun: Graduate Student Panel, Idaho Conference on Undergraduate Research  
2021 Jul: OSIRIS-REx Mission, Boise State University  
2021 Jun: Lunar Eclipses, Boise State University

## Professional Activities

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- NASA Proposal Review Panel, 2022  
NASA Proposal Writing and Evaluation Experience Academy, 2020

## DEI and Outreach

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- UC Santa Cruz GradPath Mentorship Program, Mentor, 2023-  
UC Santa Cruz Earth & Planetary Sciences Department Mentorship Program, Mentor, 2022-  
Queer Youth Task Force & Safe Schools Project of Santa Cruz County, STEM & Adult Ally Coordinator, 2022-  
Committee on Affirmative Action and Diversity, Graduate Student Representative, UC Santa Cruz Academic Senate, 2022-  
Diversity, Equity, and Inclusion Committee, Committee Member, UC Santa Cruz Earth & Planetary Sciences Department, 2021-  
Geoscientists Encouraging Openness and Diversity in the Earth Sciences, Leadership Board, UC Santa Cruz Earth & Planetary Sciences Department, 2021-  
STEM Camp, Volunteer, Sacajawea Elementary School, 2021  
STEM Camp, Volunteer, Caldwell High School, 2021

Third Thursday Astronomy Series, Volunteer, Boise State University Department of Physics, 2021  
Idaho Legislature, Technology Specialist, 2020  
Idaho State Correctional Institution, Volunteer, 2020  
First Friday Astronomy Series, Volunteer, Boise State University Department of Physics, 2019-2021