

SETH A. JACOBSON

Planetary Scientist | PI of the Planetary Makerspace @ MSU | U.S. Citizen
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PROFESSIONAL APPOINTMENTS

Assistant Professor at Michigan State University	Aug. 2019 – Present
<i>Department of Earth & Environmental Sciences, East Lansing, MI, USA (primary)</i>	
<i>Department of Physics & Astronomy, East Lansing, MI, USA (adjunct)</i>	
Assistant Professor at Northwestern University	Aug. 2017 – Aug. 2019
<i>Department of Earth & Planetary Sciences, Evanston, IL, USA</i>	
Postdoctoral Researcher with Joint Appointment	Jan. 2013 – Aug. 2017
<i>Observatoire de la Côte d'Azur (OCA), Laboratoire Lagrange, Nice, France</i>	
<i>Universität Bayreuth, Bayerisches Geoinstitut (BGI), Bayreuth, Germany</i>	

EDUCATION

University of Colorado, Boulder, CO, USA	Aug. 2008–Dec. 2012
<i>Ph.D. Astrophysical and Planetary Sciences</i>	<i>Dec. 12, 2012</i>
<i>M.S. Astrophysical and Planetary Sciences</i>	<i>Dec. 10, 2010</i>
Cornell University, Ithaca, NY, USA	Aug. 2004–May 2008
<i>B.S. Applied and Engineering Physics</i>	<i>May 25, 2008</i>

SELECTED HONORS, AWARDS, AND FELLOWSHIPS

MSU College of Natural Sciences Faculty Teaching Prize	2025
AGU Ronald Greeley Early Career Award in Planetary Sciences	2017
Asteroid 8618 (1981 DX) named Sethjacobson at Asteroids, Comets, Meteors	2014
NASA Earth and Space Science Fellowship	2010–2012

SELECTED REFEREED PUBLICATIONS

Research Group mentees are underlined.

[Google Scholar](#) | [Scopus](#) | [Web of Science](#) | [ADS Abstract Service](#) | [ArXiv Preprints](#) | [ORCID Record](#)

- de Kleer, K., B. Ehlmann, et al. *The Planetary Science Journal*, 7(2), 36, 1–21, 2026.
- Barnes, J. T., S. R. Schwartz, & **S. A. Jacobson**. *Monthly Notices of the Royal Astronomical Society*, 546 (4), stag002, 1–7, 2026.
- Hopp, T., N. Dauphas, et al. *Science*, 390(6775), 819–823, 2025.
- Barnes, J. T., S. R. Schwartz, & **S. A. Jacobson**. *The Astrophysical Journal*, 990(2), 130, 1–26, 2025.
- Park, R. S., A. I. Ermakov, et al. *Nature Astronomy*, 1–21, 2025.
- Hirabayashi, M., S. D. Raducan, et al. *Nature Communications*, 16, 1602, 1–16, 2025.
- Richardson, D. C., H. F. Agrusa, et al. *Planetary Science Journal*, 5(8), 182, 1–24, 2024.
- Scora, J., D. Valencia, et al. *The Astrophysical Journal*, 967(1), 1, 1–12, 2024.
- Nathan, G., D. C. Rubie, & **S. A. Jacobson**. *Icarus*, 401, 115596, 1–13, 2023.
- Cheng, A., H. Agrusa, et al. *Nature*, 616(7957), 457–460, 2023.
- Li, J.-Y., M. Hirabayashi, et al. *Nature*, 616(7957), 452–456, 2023.
- Daly, R. T., C. M. Ernst, et al. *Nature*, 616(7957), 443–447, 2023.
- Chen, H. & **S. A. Jacobson**. *Earth and Planetary Science Letters*, 594, 117741, 1–12, 2022.
- Scora, J., D. Valencia, et al. *The Astrophysical Journal*, 940(2), 144, 1–15, 2022.
- Sossi, P. A., I. L. Stotz, et al. *Nature Astronomy*, 6, 951–960, 2022.
- Liu, B., S. N. Raymond, & **S. A. Jacobson**. *Nature*, 604(7907), 643–646, 2022.
- Blanchard, I., D. C. Rubie, et al. *Earth and Planetary Science Letters*, 580, 117374, 1–11, 2022.
- Čuk, M., **S. A. Jacobson**, & K. J. Walsh. *Planetary Science Journal*, 2(6), 231, 1–13, 2021.
- Izidoro, A., B. Bitsch, et al. *Astronomy & Astrophysics*, 650, A152, 1–35, 2021.

- Cambioni, S., **S. A. Jacobson**, et al. *Planetary Science Journal*, 2(3), 93, 1–12, 2021.
- Jennings, E. S., **S. A. Jacobson**, et al. *Geochimica et Cosmochimica Acta*, 293, 40–69, 2021.
- Scora, J., D. Valencia, et al. *Monthly Notices of the Royal Astronomical Society*, 493(4), 4910–4924, 2020.
- Lambrechts, M., A. Morbidelli, et al. *Astronomy and Astrophysics*, 627, A83, 1–14, 2019.
- Morbidelli, A., D. Nesvorný, et al. *Icarus*, 305, 262–276, 2018.
- **Jacobson**, S. A., J. Hernlund, et al. *Earth and Planetary Science Letters*, 474, 375–386, 2017.
- Polishook, D., **S. A. Jacobson**, et al. *Nature Astronomy*, 1(179), 1–6, 2017.
- **Jacobson**, S. A. *Proceedings of the IAU*, 318, 55–65, 2016.
- Rubie, D. C., V. Laurenz, et al. *Science*, 353, 6304, 1141–1144, 2016.
- **Jacobson**, S. A., F. Marzari, et al. *Icarus*, 277, 381–394, 2016.
- Young, E. D., I. E. Kohl, et al. *Science*, 351, 6272, 493–496, 2016.
- Steckloff, J. K. & **S. A. Jacobson**. *Icarus*, 264, 160–171, 2016.
- Rubie, D. C., **S. A. Jacobson**, et al. *Icarus*, 248, 89–108, 2015.
- **Jacobson**, S. A. & K. J. Walsh. Badro, J. & M. J. Walter, eds., The early Earth: accretion and differentiation, AGU/John Wiley and Sons and Inc., 212 of *Geophysical Monograph Series*, 49–70. 2015.
- **Jacobson**, S. A., A. Morbidelli, et al. *Nature*, 508, 7494, 84–87, 2014.
- **Jacobson**, S. A. & D. J. Scheeres. *Icarus*, 214(1), 161–178, 2011.
- Pravec, P., D. Vokrouhlický, et al. *Nature*, 466(7310), 1085–1088, 2010.

SELECTED SERVICE TO MY PROFESSION

Grant program panel chair: 1 panel

Grant program panel member: 8 panels across 7 programs

Grant program external reviewer: 30 panels across 7 national and international organizations and 17 programs

Academic journal leadership

Earth and Planetary Science Advances, section editor

2026–

Journal of Geophysical Research: Planets, associate editor

2020–2021

Note: Organized a special issue, “Exoplanets”.

Academic journal referee: 98 articles for 27 publications

Academic book proposal reviewer: 2 books for 2 publishers

Professional organization leadership

American Astronomical Society Division on Dynamical Astronomy past chair

2019–2020

American Astronomical Society Division on Dynamical Astronomy chair

2018–2019

American Astronomical Society Division on Dynamical Astronomy vice chair

2017–2018

American Astronomical Society Division on Dynamical Astronomy committee member

2015–2017

Conference organization service: 1 theme chair, 2 science organizing committee chair, 1 local organizing committee chair, 6 science organizing committee member, and 1 local organizing committee member

Professional organization service

American Astronomical Society Division on Dynamical Astronomy faculty mentor

2021–

American Geophysical Union Studies of Earth’s Deep Interior prize canvassing committee member

2019–2022

Professional organization membership

[American Astronomical Society](#) (AAS)

2010–

[American Geophysical Union](#) (AGU)

2011–

[The Planetary Society](#)

2014–

[Geochemical Society](#)

2017–

[International Astronomical Union](#) (IAU)

2018–

[Association for Women Geoscientists](#) (AWG)

2019–

[National Association of Geoscience Teachers](#) (NAGT)

2020–

[International Union of Geodesy and Geophysics](#) (IUGG)

2024–