

SABINE STANLEY

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PROFESSIONAL EXPERIENCE:

Johns Hopkins University, Baltimore, MD

Vice Provost for Graduate and Professional Education, [2023-present]
Bloomberg Distinguished Professor, [2017-present]
Morton K. Blaustein Chair, Dept. of Earth & Planetary Sciences, [2021-2023]
Director of Undergraduate Studies, Dept. of Earth & Planetary Sciences, [July-Dec. 2019]
Director of Graduate Studies, Department of Earth & Planetary Sciences, [July-Dec. 2018]

University of Toronto, Department of Physics, Toronto, ON, Canada

Associate Chair of Undergraduate Studies, [2015-2016]
Professor (Tenured), [2015-2016],
Associate Professor (Tenured), [2010-2015],
Assistant Professor, [2005-2010]

SELECT OTHER LEADERSHIP ROLES AND COMMITTEES:

American Geophysical Union (AGU), Washington, DC

Audit Committee Member, [2024-present]
Board of Directors Member, [2021-2022]
Vice-Chair of the Council, [2021-2022]
Chair, Meetings Committee, [2019-2023]
Governance and Leadership Development Committee Member, [2017-2021]
Chair, Talent Pool Strategy Task Force, [2017- 2018]
Affiliation and Engagement Task Force Member, [2014-2016]
President [2015-2016] and President-elect [2013-2014] of the SEDI Focus Group

Executive Leadership in Academic Technology, Engineering and Science (ELATES), Philadelphia, PA
Learning Community Advisor, [2023-2025]

NASA InSight Mission Science Team

Co-Chair, Diversity & Inclusion Working Group, [2020-2023]

Journal of Geophysical Research – Planets, Washington, DC

Editor, [2014-2018]

EDUCATION AND TRAINING:

Massachusetts Institute of Technology, Dept. of Earth, Atmospheric & Planetary Sciences,
Postdoctoral Researcher, [2004-2005]

Harvard University,

Ph.D. in Geophysics, [2004]
M.A. in Geophysics, [2003]

University of Toronto, Toronto, ON, Canada

B.Sc. Honors in Astronomy & Physics, [1999]

SELECT AWARDS AND HONORS:

- Canada Research Chair in Planetary Physics [2012-2017]
- Dean's Outstanding Teaching Award, Faculty of Arts & Science, University of Toronto [2015]
- Sloan Research Fellow, Alfred P. Sloan Foundation [2011-2013]
- William Gilbert Award, American Geophysical Union, Geomagnetism & Paleomagnetism Section [2010]
- Ranjini Ghosh Excellence in Teaching Award, University of Toronto [2010]
- Early Researcher Award, Ministry of Research and Innovation, Province of Ontario [2009-2013]

RESEARCH EXPERIENCE AND OUTPUTS

My group's research involves understanding planetary interior processes and evolution. Presently, we focus on studying planetary magnetic field generation. We use high performance computing to study the dynamo process (where convection in electrically conducting fluid regions inside planets generate self-sustaining magnetic fields). Investigating planetary magnetic fields can give us important information about the thermal history of a planet, its interior structure, and the fluid motions occurring in the core.

Patent: Anderson, B.J., Vines, S.K., Angappan, R., & Stanley, S., Estimating Magnetic Field Using a Network of Satellites, Patent No.: US 12,292,542 B2, date of filing: 09/02/2020, date of publication: 05/06/2025.

Book for the general public: Stanley, S., *What's Hidden Inside Planets?*, with John Wenz, Johns Hopkins University Press, 2023.

Journal Publications: over 50 publications, h-index: 23, over 3000 citations:

https://scholar.google.com/citations?user=a98_x2AAAAAJ&hl=en

SELECT PROFESSIONAL DEVELOPMENT/TRAINING:

- Executive Leadership in Academic Technology, Engineering, and Science (ELATES) [2022-2023]
- Bystander Intervention Training [2022]
- OpEd: Write to Change the World Workshop [2022]
- IGEN Inclusive Practices in Graduate Admissions Workshop [2021]
- Preventing Harassment in Science Workshop [2020]
- Academics for Black Survival and Wellness Workshop [2020]
- Save a Life, QPR Training, Johns Hopkins University [2018, 2019]
- Women in Leadership: Approach and Impact, Carey Business School, [2018]

SELECT OUTREACH ACTIVITIES:

- Contributor to *Wonder Bound*, an exhibition of cosmic imagery and scientific insights from the Hubble and JWST showing at the Vatican Observatory, [2025]
<https://www.vaticanstate.va/en/news/2857-wonder-bound-the-universe-reveals-its-beauty.html>
- Collaborated with Studio Art Quilt Associates (SAQA) to provide insight and inspiration to the *Fierce Planets* exhibit of textile art based on my book, [2023-2024]
<https://www.saqa.com/art/exhibitions/fierce-planets-saqa-global-exhibition>
- Washington Post OpEd: What Monday's eclipse means for science, [2024/04/05]
(<https://www.washingtonpost.com/opinions/2024/04/05/eclipse-sun-moon-earth-science/>)
- Congressional Briefing on JHU's Civilian Space Research [2022]
- AGU EOS invited "From the Prow" posts: 7 posts authored or co-authored since 2020:
<https://fromtheprow.agu.org/author/sstanley/>
- Developed and delivered an online video lecture series/course for *The Great Courses* entitled "A Field Guide to the Planets", 24 lectures, [2018-2019] <https://www.thegreatcourses.com/courses/a-field-guide-to-the-planets.html>