

Sanjoy M. Som

Department of Earth and Space Sciences
University of Washington, Box 351310, Seattle, WA 98195
Phone: 206-685-1707 (office), Fax: 206-543-0489 (shared)
sanjoy@u.washington.edu

Education:

- 2010: Ph.D. in Earth and Space Sciences and Certification in Astrobiology, University of Washington
Specialization: Planetary surface processes, Early Earth evolution and Astrobiology
Thesis Advisors: Dr. David R. Montgomery, Dr. Roger Buick, Dr. David Catling
- 2006: Josep Comas i Solà International Summer School in Astrobiology
Universidad Internacional Menéndez Pelayo, Santander, Spain.
(Co-Sponsors: NASA Astrobiology Institute and Centro de Astrobiología, Madrid, Spain.)
- 2004: M.Sc. in Aeronautics & Astronautics, University of Washington
Specialization: Fluid mechanics & heat transfer
Thesis: Stability and Heat Transfer Characteristics of an Unsteady Condensing Film
Thesis Advisor: Dr. James Hermanson
- 2002: B.Sc. in Aerospace Engineering (with highest honors), Florida Institute of Technology

Publications:

- **Som S.**, Adam Z., Vance S. "Use the Water: In-Situ Resource Technology for Icy-Surface Landers." *Acta Astronautica* (64) 1006-101, 2009.
- **Som S.**, Montgomery D., Greenberg H. "Scaling Relations for Large Martian Valleys" *JGR-Planets*, 114, E02005, 2009.
- Montgomery D., **Som S.**, Schreiber B.C., Jackson M., Gillespie A., Adams J. "Continental-Scale Salt Tectonics on Mars and the Origin of Valles Marineris and Associated Outflow Channels". *GSA Bulletin*, (121) 117-13, 2009.
- **Som S.**, Greenberg H., Montgomery D. "The Mars Orbiter Laser Altimeter Dataset: Limitations and Improvements". *Mars: The International Journal of Mars Science and Exploration*. (4) 14-26, 2008.
- Bourgeois J., and **Som S.** "Stratigraphic architectures spotted in southern Melas Chasma, Valles Marineris, Mars: Comment". *Geology*, e145, doi.10.1130/G24181C.1, 2007.
- **Som S.**, Kimball J., Hermanson J., Allen J. "Stability and Heat Transfer Characteristics of Unsteady Condensing and Evaporating Films". *International Journal of Heat and Mass Transfer* (50) 1927-1937, 2007.

(full listing of scientific contributions at: <http://students.washington.edu/sanjoy/index-2.html>)

Relevant Experience:

- Summer 2009: Visiting Scientist, European Space Research and Technology Center (ESTEC), Noordwijk, The Netherlands
- 2009: P.I. "Astrobiology Graduate Student Conference at the University of Washington". NAI DFF funded.
- 2004-present: Research Assistant, Planetary Surface Processes, UW.
- 2007-2008: Teaching Assistant: Mineralogy and Petrology, Geobiology, Access to Space (intro to electronics), UW.
- 2007-2008: Assistant Event Manager: Space Generation Congress, Hyderabad, India and Glasgow, Scotland.
- 2007: Instructor: Workshop on Mineralogy and Petrology in Astrobiology, UW.
- 2004: Consultant: Orbital Analysis, Lunar Transportation Systems, Bellevue, WA.
- 2003-2004: Research Assistant: Fluid Dynamics Laboratory, UW.
- 2002-2004: Teaching Assistant: Orbital Mechanics, Spacecraft Design, Introduction to Air and Space Vehicles, UW.
- 2002: Team leader: Florida Tech senior design project.

Honors and Awards:

- 2009: David A. Johnston Memorial Fellowship for Exceptional Research, UW
- 2008: Robert G. and Nadine E. Bassett Field Study Fellowship, UW
- 2006: Jim and Lin Burke Outstanding Staff Award, Space Generation Congress, Valencia, Spain.
- 2006: 3rd place, poster competition, Astrobiology Science Conference, Washington, D.C.
- 2005: 1st place, Graduate Division, AIAA region VI student conference, San Luis Obispo, CA.
- 2001: Instrument, Systems and Automation Foundation Scholarship.
- 2000: Astronaut Mike Collins Space Exploration Leadership Scholarship (delivered by the Florida Space Grant Consortium).

Field Experience:

- 2009: Endeavour-Axial Geochemical and Ecological Research (EAGER), R/V Atlantis.
- 2008: Evaporites and Salts Field Expedition, Sicily, Italy.
- 2007: New Millennium Observatory (NeMO), R/V Atlantis
- 2006: UW Geology mapping field course.
- 2005: Astrobiology Field Expedition. Pilbara Craton, Western Australia.