

CURRICULUM VITAE - MIKI NAKAJIMA  
 LAST UPDATED ON NOV 15, 2022

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CONTACT INFORMATION	Department of Earth and Environmental Sciences Department of Physics and Astronomy Laboratory for Laser Energetics University of Rochester 227 Hutchison Hall, P.O. Box 270221, Rochester, NY 14627 mnakajima@rochester.edu	
EDUCATION	<b>California Institute of Technology</b> Ph.D., Planetary Science Minor in Computational Science and Engineering M.Sc., Planetary Science Advisor: D. J. Stevenson	2010 – 2016  2010 – 2013
	<b>Tokyo Institute of Technology</b> M.Sc., Earth and Planetary Sciences Advisors: S. Ida and H. Genda	2007 – 2009
	<b>University of California, Santa Cruz</b> Exchange Program, Astronomy and Astrophysics Advisors: E. Asphaug and D. N. C. Lin	2007 – 2008
	<b>Tokyo Institute of Technology</b> B.Sc., Earth and Planetary Sciences Advisors: S. Ida and M. Ikoma	2003 – 2007
ACADEMIC EMPLOYMENT	<b>University of Rochester</b> Assistant Professor, Earth and Environmental Sciences Secondary appointment in Physics and Astronomy Secondary appointment in Laboratory for Laser Energetics	Jul 2018 –
	<b>Carnegie Institution for Science</b> Carnegie Postdoctoral Fellow	Dec 2015 – Jun 2018
TEACHING EXPERIENCE	Physics of Planetary interiors, University of Rochester (UR) Designing Your Space Mission, UR Geodynamics, UR TA, Introduction to the Solar System, Caltech TA, Planetary Structure and Evolution, Caltech	Spring 2022, 2019, Fall 2020 Fall 2021, Spring 2020 Spring 2021, Fall 2019 Spring 2012, 2013 Spring 2014, 2015
MENTORING	Sarah Harter, UR graduate student (Provost fellow) Nicolas Litza, UR graduate student Scott Hull, UR graduate student Jérémy Couturier, UR postdoctoral scholar Victor Lherm, UR postdoctoral scholar Ian Szumila, UR postdoctoral scholar Soren Helhoski, UR undergraduate student Angel Paz, Research Experiences for Undergraduates (REU) student	Aug 2021 – Aug 2021 – Aug 2019 – Nov 2022 – Oct 2021 – July 2021 – Dec 2019 –

		June 2021 –
	Natalie Allen, UR undergraduate student	Jan 2020 – Aug 2022
	Arnav Sharma, UR undergraduate student	Oct 2019 – Mar 2022
	Jeremy Atkins, UR undergraduate student	Aug 2018 – Mar 2021
	Pham Nguyen, UR graduate student	Mar – Oct 2020
	Nicolas Litza, Research Experiences for Undergraduates (REU) student	May – Aug 2020
	Tyler Labree, Research Experiences for Undergraduates (REU) student	May – Aug 2019
	Keegan Ryan, Caltech undergraduate student (with D. J. Stevenson)	Jun – Sep 2013
AWARDS & GRANTS	1 shot day at the OMEGA Laser Facility (PI), Title: EOS and conductivity of mantle materials	Mar 2023
	CMAP SEED funding, \$10,000	Aug 2022
	NASA Solar System Workings, 2020 (PI), Title: Exploring the early impact history of the Moon via numerical and experimental approaches, \$499,971	Aug 2021 – Jul 2024
	0.5 shot day at the OMEGA Laser Facility (PI), Title: EOS and conductivity of mantle materials	Mar 2022
	CMAP SEED funding, \$10,000	Aug 2021
	NSF CSEDI (PI), Title: Searching For Hadean Impacts: Clues From the Sudbury Impact Basin and Machine Learning Approaches, \$361,878	Aug 2021 – Aug 2023
	Blue Ribbon panel (High-Risk/High-Impact), NASA Emerging Worlds, 2020 (PI), Title: Moon Formation via Streaming Instability, \$472,194	Jul 2021 – Jul 2024
	Kakenhi Kiban A (Collaborator), Title: A comprehensive model for the origin of rocky planets, icy planets, and gas giants in the solar system and beyond, \$431,240	Apr 2021 – Mar 2026
	The Sloan Research Foundation (Co-I), Title: AETHeR: Atmospheric Empirical, Theoretical, and Experimental Research, \$111,950	Sep 2021 – Aug 2023
	NSF Physics Frontier Center (Senior personnel), Title: The Center for Matter at Atomic Pressures (CMAP), \$12,960,000	Aug 2020 – Aug 2025
	NASA Emerging Worlds, 2018 (PI), Title: Volatile Escape from Giant Impact Ejecta, \$387,123	Feb 2019 – Feb 2022
	Postdoctoral Innovation and Excellence Award	2017
	Carnegie DTM Postdoctoral Fellowship, \$62,000 annually	2015 – 2018
	NASA Earth and Space Science Fellowship (NESSF), \$30,000 annually	2014 – 2015
	Murata Overseas Scholarship, \$30,000 annually	2010 – 2012
	Yoshida Scholarship (fellowship for studying abroad)	(declined) 2010 – 2013
	JSPS Research Fellowships for Young Scientists	2010
	Moriyasu Graduate Student Scholarship	2009 – 2010
	Study Abroad Scholarship, Japan Student Services Organizations	2007 – 2008
PROFESSIONAL SERVICE	Member of the Mercury and the Moon panel of the Planetary Science and Astrobiology Decadal Survey 2023 – 2032, National Academy of Sciences, Engineering, and Medicine Science Member of the Martian Moons eXploration Mission (MMX) (JAXA)	
	AGU Fall Meeting 2020 – 2022 Program Committee (FMPC)	
	Chair at Goldschmidt 2018, Chair at AGU 2017, 2018, 2022, Co-convener at AGU 2021, Chair at LPSC 2017	

Referee for Nature, Nature Geoscience, Nature Astronomy, Nature Communications, Science, Philosophical Transactions of the Royal Society A, Earth and Planetary Science Letters, Astrophysical Journal, Icarus, Journal of Geophysical Research, Astronomy and Astrophysics  
 Review Panelist and Executive Secretary for NASA programs, Review panelist for an NSF program

THESIS COMMITTEE PhD defense: Zaarah Mohamed (2021), Linda Crandall (2021), Ian Szumila (2021), Robert Fine (2020), Hongzhe Zhou (2020), Mario Cabrera (2019)  
 Oral exam: Ziqi (Evan) Zhang (2021), Scott Hull (2021), Tinghong Zhou (2020)  
 Master's thesis: Chayut Teeraratkul (2019)  
 Qualifying exam: Ziqi (Evan) Zhang (2021), Scott Hull (2020), Tinghong Zhou (2019), Esteban Wright (2019)

OUTREACH ACTIVITIES Speaker at Astronomy Section Rochester Academy of Science Meeting Feb 2022  
 Panelist at XPLANE CAFÉ 5-minute challenge Dec 2021  
 Society of Asian Scientists and Engineers (SASE) Professionalism Panel Apr 2021  
 Speaker at the Society of Women in Astronomy and Physics (SWAP) meeting Oct 2020  
 Panelist at an event for Japanese students studying in USA Aug 2020  
 Organizer for Student Presentations on Space Missions at Rochester Museum and Science Center Apr 2020  
 Speaker at Astronomy Club Stargazing Night for Girl Scouts Nov 2019  
 Speaker at STANYS (Science Teachers New York State) Conference Nov 2019  
 Panelist at a STEM event by the Society of Asian Scientists and Engineers Apr 2019  
 Organizer of USA Science and Engineering Festival Apr 2018  
 Public lecture at the Virginia Astronomy Club Mar 2018  
 Organizer of Science Outreach Program: Planet Hunting in Tokyo Oct 2016  
 Presenter of Workshop on Studying Abroad at Tokyo Tech Jun 2016  
 Organizer of USA Science and Engineering Festival Apr 2016  
 Organizer of Community Science Event at Caltech Feb 2015  
 Organizer of Japanese Students' Visit at Caltech 2013 – 2015

PUBLICATIONS Nakajima's Mentee contributions are indicated by underline  
Atkins, J., Nakajima, M., Simon, J. B., and Quillen, A. Lunar formation by streaming instability. in prep.  
Helhoski, S., Nakajima, M., Gagne, J., Trail, D. A numerical model to constrain the origin of lunar impact ejecta, in prep. Conference abstract (LPSC 2021).  
**Nakajima, M.,** and Stevenson, D. J., Dynamical mixing of planetary cores by giant impacts. in prep.  
Hull, S. D., Nakajima, M., Hosono, N., Canup, R. M., Gassmüller, R. Effect of Heat Capacity and Low Resolution Disks in SPH Models of the Moon-Forming Giant Impact. in review.  
 Lichtenberg, T., Schaefer, L., **Nakajima, M.,** and Fischer, R. A., Geophysical evolution during rocky planet formation. Protostars and Planets VII., in review.

Szumila, I., Trail, D., Erickson, T., Simon, J. I., Wielicki, M. M., Lapen, T., **Nakajima, M.**, and Fries, M. Microstructural and isotopic characterization of synthetically-shocked sanidine-zircon mixture: implications for planetary impact chronology. *American Mineralogist*, accepted.

Allen, N., **Nakajima, M.**, Wünnemann, K., Helhoski, S., Trail, D. A Revision of the Formation Conditions of the Vredefort Crater. *Journal of Geophysical Research: Planets*, 127, e2022JE007186. doi: 10.1029/2022JE007186.

**Nakajima, M.**, Genda, H., Asphaug, E. I., and Ida, S., Large planets may not form fractionally large moons., 2022. *Nature Communications*, 13, 568. doi: 10.1038/s41467-022-28063-8

Canup, R., Righter, K., Dauphas, N., Pahlevan, K., Čuk, M., Lock, S. J., Stewart, S. T., Salmon, J., Rufu, R., **Nakajima, M.**, Magna, T. Origin of the Moon, *New Views of the Moon II*. in press.

Tarduno, J. A., Cottrell, R. D., Lawrence, K., Bono, R. K., Huang, W., Johnson, C. L., Blackman, E. G., Smirnov, A. V., **Nakajima, M.**, Neal, C. R., Zhou, T., Ibanez-Mejia, M., Oda, H., and Crummins, B., 2021. Absence of a long-lived lunar paleomagnetosphere. *Science Advances*, 7, eabi7647. doi: 10.1126/sciadv.abi7647

**Nakajima, M.**, Golabek, G. J., Wünnemann, K., Rubie, D. C., Burger, Melosh, H. J., Jacobson, S. A., C., Manske, L., and Hull, S. D., 2021. Scaling laws for the geometry of an impact-induced magma ocean. *Earth and Planetary Science Letters*, 568, 116983. doi: 10.1016/j.epsl.2021.116983

Quillen, A. C., Zaidouni, F., **Nakajima, M.**, Wright, E., 2021. Accretion of Ornamental Equatorial Ridges on Pan, Atlas and Daphnis. *Icarus*, 357, 114260. doi: 10.1016/j.icarus.2020.114260

Wright, E., Quillen, A., South, J., Nelson, R. C., Sanchez, P., Siu, J., Askari, H., **Nakajima, M.**, and Schwartz, S. R., 2020. Ricochets on Asteroids: Experimental study of low velocity grazing impacts into granular media. *Icarus*, 351, 113963. doi: 10.1016/j.icarus.2020.113963

Wright, E., Quillen, A. C., South, J., Nelson, R. C., Sanchez, P., Martini, L., Schwartz, S., **Nakajima, M.**, Asphaug, E., 2020. Boulder Stranding in Ejecta Launched by an Impact Generated Seismic Pulse. *Icarus*, 337, 113424. doi: 10.1016/j.icarus.2019.113424

Quillen, A. C., Lane, M., **Nakajima, M.**, and Wright, E., 2020. Excitation of Tumbling in Phobos and Deimos. *Icarus*, 340, 113641. doi: 10.1016/j.icarus.2020.113641

Quillen, A. C., Martini, L., and **Nakajima, M.**, 2019. Near/far side asymmetry in the tidally heated Moon. *Icarus*, 329, 182-196. doi: 10.1016/j.icarus.2019.04.010

**Nakajima, M.**, and Stevenson, D. J., 2018. Inefficient volatile loss from the Moon-forming disk: reconciling the giant impact hypothesis and a wet Moon. *Earth and Planetary Science Letters*, 487, 117-126. doi: 10.1016/j.epsl.2018.01.026

Hauri, E. H., Saal, A. E., **Nakajima, M.**, Anand, M., Rutherford, M. J., Van Orman, J. A., and Le Voyer, M., 2017. Origin and Evolution of Water in the Moon's Interior. *Annual Review of Earth and Planetary Sciences*, 45, 89-111. doi: 10.1146/annurev-earth-063016-020239

Jacobson, S. A., Rubie, D. C., Hernlund, J., Morbidelli, A., and **Nakajima, M.**, 2017. Formation, Stratification and Mixing of the Cores of Earth and Venus. *Earth and Planetary Science Letters*, 474, 375-386. doi: 10.1016/j.epsl.2017.06.023

**Nakajima, M.**, 2016. Core Science: Stratified by a Sunken Impactor. *Nature Geoscience, News & Views*, 9, 734 - 735. doi: 10.1038/ngeo2815

**Nakajima, M.**, and Ingersoll, A. P., 2016. Controlled boiling on Enceladus. 1. Model of the vapor-driven jets. *Icarus*, 272, 309-318. doi: 10.1016/j.icarus.2016.02.027

Ingersoll, A. P., and **Nakajima, M.**, 2016. Controlled boiling on Enceladus. 2. Model of the liquid-filled cracks, 272, 319-326. doi: 10.1016/j.icarus.2015.12.040

**Nakajima, M.**, and Stevenson, D. J., 2015. Melting and Mixing States of the Earth's Mantle after the Moon-Forming Impact. *Earth and Planetary Science Letters*, 427, 286-295. doi: 10.1016/j.epsl.2015.06.023

**Nakajima, M.**, and Stevenson, D. J., 2014. Investigation of the Initial State of the Moon-Forming Disk: Bridging SPH Simulations and Hydrostatic Models. *Icarus*, 233, 259-267. doi: 10.1016/j.icarus.2014.01.008

INVITED  
SEMINARS

Nov 2022, Origin of moons in the solar system and beyond. TAP Colloquia, University of Arizona, Tucson, AZ, USA.

June 2022, Origin of moons in the solar system and beyond. Department Seminar, Zhejiang University, Hangzhou, China (Zoom).

May 2022, Origin of moons in the solar system and beyond. Department Seminar, Western Washington University, Bellingham, WA, USA (Zoom).

April 2022 Origin of moons in the solar system and beyond. Division Seminar, California Institute of Technology, Pasadena, CA, USA.

April 2022 Origin of moons in the solar system and beyond. EPSS Colloquium, University of California, Los Angeles, Los Angeles, CA, USA.

Nov 2021 Origin of moons in the solar system and beyond. Astronomy Department Seminar, Rochester Institute of Technology, Rochester, NY, USA.

Nov 2021 Origin of moons in the solar system and beyond. Department Seminar at the Department of Earth and Atmospheric Sciences, Cornell University, Ithaca, NY, USA.

Feb 2021 Origin of Earth, the Moon, and exomoons. APS Colloquia, University of Colorado, Boulder, Boulder, CO, USA (Zoom).

Oct 2020 Origin of Earth, the Moon, and exomoons. Colloquium at the Physics Department, University of Albany, Albany, NY, USA.

Jul 2020 Consequences of Giant Impacts. IGPP Seminar, University of California, Santa Cruz, Santa Cruz, CA, USA.

Feb 2020 Origin of the Earth and Moon. Seminar, Ohio State University, Columbus, CA, USA.

Nov 2019 Origin of the Earth and Moon. AST Colloquium, Stanford University, Stanford, CA, USA.

Sep 2019 Origin of the Earth and Moon. AST Colloquium, Rochester Institute of Technology, Rochester, NY, USA.

Sep 2019 Origin of the Earth and Moon. Seminar, Vassar College, Poughkeepsie, NY, USA.

Sep 2019 Origin of the Earth and Moon. Department Colloquium Series, Department of Earth and Planetary Sciences, Harvard University, Boston, MA, USA.

June 2019 Origin of the Earth and Moon. Seminar, Institute de Physique du Globe de Paris (IPGP), Paris, France.

Apr 2019 Origin of the Earth and Moon. Nelson Lecture, Syracuse University, Syracuse, NY, USA.

Sep 2018 Origin of the Earth and Moon. Astronomy and Space Sciences, Cornell University, Ithaca, NY, USA.

Sep 2018 Origin of the Earth and Moon. EPS Seminar, The University of Edinburgh, Edinburgh, UK.

Sep 2018 Origin of the Earth and Moon. Seminar, Max Planck Institute for Solar System Research, Göttingen, Germany.

Jun 2018 Origin of the Earth, Moon, and Martian Moons. Seminar, Tohoku University, Sendai, Japan.

Jun 2018 Origin of the Earth, Moon, and Martian Moons. Seminar, University of Tokyo, Tokyo, Japan.

May 2018 Origin of the Earth, Moon and Martian Moons. Seminar, NASA Goddard Space Flight Center, Lanham, MA, USA.

Apr 2018 Origin of the Earth, Moon and Martian Moons. Geoscience seminar, Scripps Institution of Oceanography, University of California, San Diego, CA, USA.

Mar 2018 Origin of the Earth, Moon and Martian Moons. Seminar, Smithsonian Institution, Washington, DC, USA.

Feb 2018 Origin of the Earth, Moon and Martian Moons. Department colloquium, Case Western Reserve University, Cleveland, OH, USA.

Nov 2017 Origin of the Earth and Moon. USNO Seminar, US Naval Observatory, Washington, DC, USA.

Oct 2017 Origin of the Martian Moons and Exomoons. Fall 2017 Colloquium, University of Rochester, Rochester, NY, USA.

Sep 2017 Origin of the Earth, Moon, and Martian Moons. Special Seminar, Physics & Geological Sciences, University of Colorado, Boulder, CO, USA.

May 2017 Origin of the Earth and Moon. TRR170 Seminar, Freie Universität Berlin, Berlin, Germany.

May 2017 Origin of the Earth and Moon. Seminar Series, University of Münster, Münster, Germany.

Mar 2017 Exploring Moons in the Solar System and Beyond. Special Seminar, University of Rochester, Rochester, NY, USA.

Mar 2017 Origin of the Earth and Moon. Special Seminar, University of Rochester, Rochester, NY, USA.

Feb 2017 Origin of the Earth and Moon. Special Seminar, University of Oxford, Oxford, UK.

Nov 2016 Origin of the Earth, the Moon, and exomoons. Astrophysics, Gravitation, and Cosmology Seminar, University of Illinois at Urbana-Champaign, Champaign, IL, USA.

Nov 2016 Implications of the Moon Formation for the Earth's Mantle and Magnetic Field. Geochemistry Seminar, University of Maryland, College Park, MA, USA.

Mar 2016 Controlled boiling on Enceladus: Model of the vapor-driven jets. Enceladus workshop, University of California, Berkeley, Berkeley, CA, USA.

Mar 2016 Origin of the Earth and Moon. Solar System Exploration Winter Seminar Series, NASA/Goddard Space Flight Center, Greenbelt, MA, USA.

Feb 2016 Origin of the Earth and Moon. Earth and Planetary Sciences Randolph Bromery Spring 2016 Seminar Series, Johns Hopkins University, Baltimore, MA, USA.

Feb 2016 Origin of the Earth and Moon. GeoSci Seminar, University of Chicago, Chicago, USA.

Nov 2015 Origin of the Earth and Moon. Plunch talk, University of California, Santa Cruz (UCSC), Santa Cruz, USA.

Sep 2015 Effects of giant impacts on planetary magnetic fields and exomoon formation. GFD Seminar, ETH Zurich, Zurich, Switzerland.

May 2015 Implications for mantle melting and the magnetic field from giant impact simulations. 2015 ACCRETE Group Meeting, Bayerisches Geoinstitut (BGI), Bayreuth, Germany.

May 2015 Implications for mantle melting, volatile loss, and the magnetic field from giant impact simulations, Brown University, Providence, RI, USA.

May 2015 Origin of the Earth and Moon, DEEPS Colloquia Series, Brown University, Providence, RI, USA.

Feb 2015 Moon formation recipes. iPLEX Lunch Talk, University of California, Los Angeles (UCLA), Los Angeles CA, USA.

Jan 2015 Origin of the Earth and Moon. DTM Weekly Seminar Series, Carnegie Institution of Washington DTM, Washington, DC, USA.

Nov 2014 Origin of the Earth and Moon and its implications for exomoon formation. Southwest Research Institute (SwRI), Boulder CO, USA.

Sep 2014 Initial states of the Earth's mantle and Moon-forming disk. GFD Seminar, ETH Zurich, Zurich, Switzerland.

Apr 2014 Do we understand the origin of the Moon? Woman in Aerospace Symposium, Massachusetts Institute of Technology (MIT), Boston MA, USA.

SELECTED  
CONFERENCE  
TALKS

**Nakajima, M.**, Atkins, J., Simon, J. B., and Quillen, A. C. Moon Formation via Streaming Instability, EGU General Assembly 2022, EGU22-3311, Vienna, Austria (*Invited*).

- Nakajima, M.**, Consequences of giant impacts on planetary evolution. 10th ELSI International Symposium, Zoom (*Invited*).
- Nakajima, M.**, Atkins, J., Simon, J. B., and Quillen, A. C. The Moon formation via Streaming Instability. AGU Fall Meeting, 2021, New Orleans, LA, USA.
- Nakajima, M.**, Genda, H., Asphaug, E., and Ida, S., 2020. Constraints on formation of the Moon and exomoons. AGU Fall Meeting, 2020, Zoom.
- Nakajima, M.**, 2020. Origin of the Moon. Inaugural Prebiotic Chemistry and Early Earth Environments (PCE3) Community Workshop. Zoom Session (*Invited*).
- Nakajima, M.**, 2020. Interdisciplinary investigations on planetary impacts and interiors. Gordon Research Conference. Holderness, NH, USA (*Invited*) (cancelled due to COVID-19).
- Nakajima, M.**, 2019. Consequences of giant impacts. COMPRESS 2019, Big Sky, Montana, USA (*Keynote*).
- Nakajima, M.**, 2019. Consequences of planetary impacts: mantle melting and core formation. European Week of Astronomy and Space Science (EWASS), Lyon, France (*Invited*).
- Nakajima, M.**, and van Keken, P. E., 2018. Effects of plate tectonic simulations on mantle convection and mixing. 2018 AGU Fall Meeting, Washington, DC, USA.
- Nakajima, M.**, and Canup, R. M., 2018. Origin of the Martian Moons and Their Water Abundances. Goldschmidt 2018, Boston, MA, USA.
- Nakajima, M.**, and Canup, R. M., 2017. Origin of the Martian Moons and Their Water Abundances. 48th Lunar and Planetary Science Conference, 2900, The Woodlands TX, USA.
- Nakajima, M.**, and Hauri, E. H., 2017. Initial Water Abundance of the Bulk Silicate Moon. 48th Lunar and Planetary Science Conference, 2858, The Woodlands TX, USA.
- Nakajima, M.**, Rubie, D., Melosh, H. J., Nimmo, F., Jacobson, S. A., Morbidelli, A., 2016. Extent of Mantle Melting by Giant Impacts. Magma Oceanology Workshop, Atami, Japan. (*Invited*)
- Nakajima, M.**, and Stevenson, D. J., 2016, Dynamical mixing of planetary cores by giant impacts. 47th Lunar and Planetary Science Conference, 2053, The Woodlands TX, USA.
- Nakajima, M.**, and Stevenson, D. J., 2015. The state of the Earth's mantle after the giant impact. 2015 AGU Fall Meeting, San Francisco, USA (*Invited*).
- Nakajima, M.**, and Ingersoll, A. P., 2015. Controlled boiling on Enceladus: Model of the vapor-driven jets. 2015 AGU Fall Meeting, San Francisco, USA.
- Nakajima, M.**, and Genda, H., Asphaug, E. I., and Ida, S., 2014. Constraints on Exomoon Formation. 46th DPS Meeting, Tucson AZ, USA.
- Nakajima, M.**, and Stevenson, D. J., 2014. The Initial State of Earth's Mantle after the Moon-Forming Impact. International interdisciplinary workshop, Accretion and Early Differentiation of the Earth and Terrestrial Planets (ACCRETE), Nice, France.



**Nakajima, M.**, and Stevenson, D. J., 2014. Moon-forming Disk - Formation and Water Loss. The proto-lunar disk splinter session, Accretion and Early Differentiation of the Earth and Terrestrial Planets (ACCRETE), Nice, France (*Invited*).

**Nakajima, M.**, and Stevenson, D. J., 2014. Hydrodynamic Escape does not Prevent the “Wet” Moon Formation. 45th Lunar and Planetary Science Conference, 2770, The Woodlands TX, USA.

**Nakajima, M.**, and Stevenson, D. J., 2013, Thermodynamic Processes During the Moon-Forming Impact. 44th Lunar and Planetary Science Meeting, The Woodlands TX, USA.

**Nakajima, M.**, and Stevenson, D. J., 2012, The Initial State of the Moon Forming Disk and the Earth’s Mantle. 43rd Lunar and Planetary Science Meeting, The Woodlands TX, USA.