

Matthew J. Rutala

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Last Updated: Nov. 6, 2019

EDUCATION

CURRENT	Ph.D. Candidate in Astronomy Boston University <i>Boston, Massachusetts</i> Advisor: Prof. John T. Clarke
SEPTEMBER 2019	M.A. in Astronomy Boston University <i>Boston, Massachusetts</i> Advisor: Prof. John T. Clarke
MAY 2017	B.Sc. in Astrophysics and Linguistics <i>summa cum laude</i> Rutgers University <i>New Brunswick, New Jersey</i> Advisor: Prof. Jack P. Hughes Graduated with Highest Honors in Astrophysics and Honors in Linguistics

RESEARCH POSITIONS

PRESENT	Research Fellow
MAY 2019	Boston University Boston, Massachusetts Prof. John Clarke
AUGUST 2018	Research Fellow
SEPTEMBER 2017	Boston University Boston, Massachusetts Prof. John Clarke
MAY 2017	Undergraduate Research Assistant
SEPTEMBER 2015	Rutgers University Prof. Jack Hughes
AUGUST 2015	REU Research Assistant
JUNE 2015	Boston University Prof. Catherine Espallat
MAY 2015	Undergraduate Research Assistant
JUNE 2014	Rutgers University Prof. Troy Shinbrot

TEACHING EXPERIENCE

MAY 2019	Teaching Fellow
JANUARY 2019	AS100 "Cosmic Controversies" at Boston University
SEPTEMBER 2018	Teaching Fellow
DECEMBER 2018	AS107 "Life Beyond Earth" at Boston University
DECEMBER 2017	Coadjutant
JANUARY 2017	Coursera MOOC "Analyzing the Universe" via Rutgers University

PUBLICATIONS

Shinbrot, T., **Rutala, M.**, and Herrmann, H. (2017). Surface contact charging. Phys. Rev. E, 96:032912.

Shinbrot, T., **Rutala, M.**, Montessori, A., Prestininzi, P., and Succi, S. (2015). Paradoxical ratcheting in cornstarch. Physics of Fluids, 27(10):103101.

ABSTRACTS

JUNE 2019	New Insights into Jupiter's Dawn Storms Poster at the Magnetospheres of the Outer Planets conference
JULY 2018	Characterizing Local and Interplanetary Control of Jupiter's Auroral Dawn Storms using HST and Juno Poster at the Magnetospheres of the Outer Planets conference
MAY 2015	Size Segregation in Asteroid Regolith Poster at the New Jersey Space Grant Consortium Poster Session
APRIL 2015	Size Segregation in Asteroid Regolith Poster at the Aresty Research Symposium
AUGUST 2014	Paradoxical Ratcheting in Oobleck Poster at the Aresty Summer Research Symposium

AWARDS

MAY 2019	Outstanding Teaching Fellow in the Department of Astronomy Awarded by: Boston University College and Graduate School of Arts and Sciences
MAY 2017	Honors Scholar Awarded by: Rutgers University School of Arts and Sciences
MAY 2017	Richard T. Weidner Physics Prize Awarded by: Rutgers University Department of Physics and Astronomy
MARCH 2016	Phi Beta Kappa Scholar Awarded by: The Phi Beta Kappa Society
SEPTEMBER 2015	Herman Y. Carr Scholarship Awarded by: Rutgers University Department of Physics and Astronomy
OCTOBER 2014	Research Fellowship Awarded by: the New Jersey Space Grant Consortium (NJS GC)

OUTREACH

PRESENT SEPTEMBER 2017	Boston University Public Open Night An event hosted by the graduate students at Boston University which invites the public to view the night sky and learn more about astronomy.
AUGUST 2019	GWISE Open Night A one-time open-night-like for members of the Graduate Women In Science and Engineering.
JULY 2018	Precollege Women Open Night A one-time open-night-like event for precollege women interested in going to school for science.
JUNE 2018	Space Science for Kids An educational event for elementary- and middle-school children, coinciding with the 30 th anniversary of the Center for Space Physics at Boston University.

LEADERSHIP

SEPTEMBER 2019 SEPTEMBER 2018	Graduate Student Representative
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