

Mia J.T. Mace

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Education

- 2021 PHD, Physics, University of Bristol, UK. *Charged Dust Dynamics in Saturn's Rings*.
2013 MSci, Physics, University of Bristol, UK. *First Class Honours*.

Employment

- 2022 – Planetary Astronomer & Associate Deputy Manager for the Ring-Moon Systems Node of NASA's Planetary Data System, SETI Institute.
2021 Research Associate (Astrophysics Group), H.H. Wills Physics Laboratory, University of Bristol. *Investigating the stability of charged nanodust in Saturn's main rings*.
2018 Teaching Support Assistant, University of Bristol. *Introductory Foundations of Mathematics*.
2015/16 Demonstrator for Undergraduate Computational Physics module, University of Bristol.
2014 Research Assistant (Astrophysics Group), H.H. Wills Physics Laboratory, University of Bristol. *Investigating Moon formation scenarios using N-body simulations*.
2013 Student Fellowship, Australian Astronomical Observatory. *The kinematics of early-type galaxies*.
2011/12 NERC Student Summer Research Assistant. School of Earth Sciences, University of Bristol. *Surveying the Western Branch of the East African Rift using Interferometric Synthetic Aperture Radar / Modelling electrical resistance maps of subterranean features in Lamb Leer Cavern, Somerset UK*.

Selected publications & presentations

- 2022 Chanover, N., *et al*, "Giant Planet Observations in NASA's Planetary Data System", *in prep*.
2022 **Mace, M.J.T.**, Leinhardt, Z., Birkinshaw, M. *In prep*.
2019 **Mace, M.J.T.** Poster presentation "Magnetic Field Effects on the Motion of Charged Dust in Saturn's Rings", *Extreme Solar Systems IV* AAS conference (Reykjavík, Iceland).
2018 Lock, S.J., Stewart, S.T., Petaev, M.I., Leinhardt, Z., **Mace, M.J.T.**, Jacobsen, S.B., & Čuk, M. "The Origin of the Moon Within a Terrestrial Synestia" *Journal of Geophysical Research: Planets*, 123, 910-951.
2013 Biggs J., Robertson E., **Mace M.J.T.** "ISMER – Active Magmatic Processes in the East African Rift: A Satellite Radar Perspective" In *Remote Sensing Advances for Earth System Science*, 81-91, Springer, Berlin, Heidelberg.