

Megan E. Schwamb
Senior Lecturer
Astrophysics Research Centre
School of Mathematics and Physics
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Research Interests

Dr. Schwamb's research focuses on how planets and their building blocks form and evolve. With ground-based surveys, she studies our Solar System's small body reservoirs, in particular focusing on the Kuiper belt beyond Neptune. She also utilizes citizen science to mine large datasets for Solar System science.

Employment

Senior Lecturer

School of Mathematics and Physics
Queen's University Belfast
Belfast, United Kingdom
05 Aug 2019 → present

Astrophysics Research Centre (ARC)

Queen's University Belfast
United Kingdom
05 Aug 2019 → present

Prizes

Academia Sinica Postdoctoral Fellowship

Schwamb, Megan (Recipient), 2013

AURA Science Award

Schwamb, Megan (Recipient), 2019

Carl Sagan Medal for Excellence in Public Communication in Planetary Science

Schwamb, Megan (Recipient), 2017

NSF Astronomy and Astrophysics Postdoctoral Fellowship

Schwamb, Megan (Recipient), 2010

Professional Activities & Service

Liverpool Telescope Time Allocation Committee (External organisation)

Megan Schwamb (Member)
01 Nov 2022 → ...

Isaac Newton Group of Telescopes (External organisation)

Megan Schwamb (Member)
Aug 2020 → Dec 2022

Mikulski Archive for Space Telescopes (MAST) User Group (External organisation)

Megan Schwamb (Board Member)
May 2020 → Dec 2022

Rubin Observatory Survey Cadence Optimization Committee (External organisation)

Megan Schwamb (Member)
May 2020 → Dec 2022

LSST:UK Science Working Group (External organisation)

Megan Schwamb (Member)
30 Jan 2020 → ...

LSST:UK Board (External organisation)

Megan Schwamb (Board Member)
05 Aug 2019 → ...

Rubin Observatory International in-kind Contribution Evaluation Committee (External organisation)

Megan Schwamb (Member)
Jan 2019 → 01 Jun 2021

Comet Interceptor Pre-Mission Adoption Target Selection Team

Megan Schwamb (Member)
2019 → Aug 2022

Rubin Observatory Science Advisory Committee (External organisation)

Megan Schwamb (Member)
01 Dec 2018 → 28 Feb 2023

Gemini Observatory Time Domain Advisory Committee (External organisation)

Megan Schwamb (Member)
2018 → 2021

Rubin Observatory Legacy Survey of Space and Time (LSST) Solar System Science Collaboration (External organisation)

Megan Schwamb (Chair)
May 2017 → ...

Research outputs

Planet hunters NGTS: new planet candidates from a citizen science search of the next generation transit survey public data

O'Brien, S. M., Schwamb, M. E., Gill, S., Watson, C. A., Burleigh, M. R., Kendall, A., Casewell, S. L., Anderson, D. R., Vines, J. I., Jenkins, J. S., Alves, D. R., Trouille, L., Ulmer-Moll, S., Bryant, E. M., Apergis, I., Battley, M., Bayliss, D., Eisner, N. L., Gillen, E., Goad, M. R., & 19 others Günther, M. N., Henderson, B. A., Heo, J. E., Jackson, D. G., Lintott, C., McCormac, J., Moyano, M., Nielsen, L. D., Osborn, A., Saha, S., Sefako, R. R., Stephens, A. W., Tilbrook, R. H., Udry, S., West, R. G., Wheatley, P. J., Zivave, T., Lim, S. M. & Sainio, A., 01 May 2024, In: The Astronomical Journal. 167, 5, 32 p., 238.

The weird and the wonderful in our solar system: searching for serendipity in the legacy survey of space and time

Rogers, B., Lintott, C. J., Croft, S., Schwamb, M. E. & Davenport, J. R. A., 19 Feb 2024, In: The Astronomical Journal. 167, 3, 14 p., 118.

Col-OSSOS: the distribution of surface classes in Neptune's resonances

Pike, R. E., Fraser, W. C., Volk, K., Kavelaars, J. J., Marsset, M., Peixinho, N., Schwamb, M. E., Bannister, M. T., Peltier, L., Buchanan, L. E., Benecchi, S. & Tan, N. J., 01 Oct 2023, In: The Planetary Science Journal. 4, 10, 18 p., 200.

Col-OSSOS: evidence for a compositional gradient inherited from the protoplanetary disk?

Marsset, M., Fraser, W. C., Schwamb, M. E., Buchanan, L. E., Pike, R. E., Volk, K., Peixinho, N., Benecchi, S., Bannister, M. T., Tan, N. J. & Kavelaars, J. J., 01 Sept 2023, In: The Planetary Science Journal. 4, 9, 17 p., 160.

Tuning the legacy survey of space and time (LSST) observing strategy for solar system science

Schwamb, M. E., Jones, R. L., Yoachim, P., Volk, K., Dorsey, R. C., Opitom, C., Greenstreet, S., Lister, T., Snodgrass, C., Bolin, B. T., Inno, L., Bannister, M. T., Ettl, S., Solontoi, M., Kelley, M. S. P., Jurić, M., Hsing, W. 省文. L. 林., Ragozzine, D., Bernardinelli, P. H., Chesley, S. R., & 10 others Daylan, T., Āurech, J., Fraser, W. C., Granvik, M., Knight, M. M., Lisse, C. M., Malhotra, R., Oldroyd, W. J., Thirouin, A. & Quanzhi, 泉志 Y 叶, 01 Jun 2023, In: The Astrophysical Journal Supplement. 266, 2, 68 p., 22.

Col-OSSOS: the two types of Kuiper Belt surfaces

Fraser, W. C., Pike, R. E., Marsset, M., Schwamb, M. E., Bannister, M. T., Buchanan, L., Kavelaars, J. J., Benecchi, S. D., Tan, N. J., Peixinho, N., Gwyn, S. D. J., Alexandersen, M., Chen, Y-T., Gladman, B. & Volk, K., 01 May 2023, In: The Planetary Science Journal. 4, 5, 25 p., 80.