

### Publications as Lead Author

*Note: candidate name in bold*

3. "Advanced PySPAM: Constraining Galaxy Interaction in a Statistical Manner", **D. O’Ryan** & B. D. Simmons, In Prep., Link to In Prep Manuscript: [Link](#)
2. "Ancillary to the Hubble Archives: Interacting Galaxies in the COSMOS Field", **D. O’Ryan**, et al., In Prep., Link to In Prep Manuscript: [Link](#)
1. "Harnessing the Hubble Space Telescope Archives: A Catalogue of 21,926 Interacting Galaxies", **D. O’Ryan**, et al. (16 authors), [2023, ApJ, 948, pp 40 – 68](#)

### Publications as Major Contributing Author

1. "Origin of the Local Group Satellite Planes", I. Banik, **D. O’Ryan**, H. Zhao, [2018, MNRAS, 477, pp 4768–4791](#)

### Publications as Associate Author

9. "Galaxy Zoo DESI: Large-Scale Bars as a Secular Mechanism for Triggering AGN", I. Garland *et al.* (**O’Ryan**: 12<sup>th</sup> of 15 authors), submitted to MNRAS
8. "Galaxy Merger Challenge: A Comparison Study Between Machine Learning Detection Methods", B. Margalef-Bentabol *et al.* (**O’Ryan**: 14<sup>th</sup> of 14 authors), submitted to A&A
7. "Galaxy Zoo DESI: Detailed Morphology Classifications for 8.7M Galaxies in the DESI Legacy Imaging Surveys", M. Walmsley *et al.* (**O’Ryan**: 12<sup>th</sup> of 16 authors), Accepted to MNRAS
6. "Zoobot: Adaptable Deep Learning Models for Galaxy Morphology", M. Walmsley *et al.* (**O’Ryan**: 13<sup>th</sup> of 17 authors), [2023, JOSS, 5312, pp 85– 89](#)
5. "Galaxy and Mass Assembly: Galaxy Morphology in the Green Valley, Prominent Rings, and Looser Spiral Arms", D. Smith *et al.* (**O’Ryan**: 17<sup>th</sup> of 18 authors), [2022, MNRAS, 517, pp. 4575–4589](#)
4. "Preparing for Low Surface Brightness Science with the Vera C. Rubin Observatory: Characterization of Tidal Features from Mock Images", G. Martin *et al.* (**O’Ryan**: 20<sup>th</sup> of 52 authors), [2022, MNRAS, 513, pp. 1459–1487](#)
3. "Gems of the Galaxy Zoos-A Wide-ranging Hubble Space Telescope Gal-filler Program", W. Keel *et al.* (**O’Ryan**: 16<sup>th</sup> of 16 authors), [2022, AJ, 163, pp. 150](#)
2. "Quantifying the Poor Purity and Completeness of Morphological Samples Selected by Galaxy Colour", R. J. Smethurst *et al.* (**O’Ryan**: 9<sup>th</sup> of 10 authors), [2022, MNRAS, 510, pp. 4126–4133](#)
1. "The Most Luminous, Merger-Free AGN Show Only Marginal Correlation with Bar Presence", I. L. Garland *et al.* (**O’Ryan**: 14<sup>th</sup> of 16 authors), [2023, MNRAS, 522, pp. 211–225](#)