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Publications

Author of over 100 refereed publications which have over 10,000 citations, and an h-index of 50. Over 15 items are in conference proceedings or other non-refereed publications, and one book chapter. I have denoted with a * the publications in which I was the primary and close supervisor of the lead author.

Submitted

J. P. Cordero, K. Donkers, I. Harrison, **S. L. Bridle**, A. Frankowska, M. Cain, N. Ward, J. Fredenburgh, E. Pope, A. Kluczkovski, X. Schmidt, J. Tereza da Silva, C. Reynolds, K. Denby, B. Doherty, A. Jones

AgriFoodPy: a package for modelling food systems

Journal of Open Source Software

Non-refereed

T. Benton, A. Curry, J. Fredenburgh, T. Macmillan, **S. Bridle**, A. Sanderson Bellamy, S. Kepinski, N. Ward

AgriFood4NetZero (AFN) Network+ report: What could the UK Agri-Food System look like in 2050?

November 2023 AFN Network+

<https://www.agrifood4netzero.net/agri-food-system-2050.html>

Refereed Publications excluding those as DES Builder

107. A. Jones, **S. Bridle**, K. Denby, R. Bhunnoo, D. Morton, L. Stanbrough, B. Coupe, V. Pilley, T. Benton, P. Falloon, T. K. Matthews, S. Hasnain, J. S. Heslop-Harrison, S. Beard, J. Pierce, J. Pretty, M. Zurek, A. Johnstone, P. Smith, N. Gunn, M. Watson, E. Pope, A. Tzachor, C. Douglas, C. Reynolds, N. Ward, J. Fredenburgh, C. Pettinger, T. Quested, J.P. Cordero, C. Mitchell, C. Bewick, C. Brown, Ch. Brown, P. J. Burgess, A. Challinor, A. Cottrell, T. Crocker, T. George, C. J. Godfray, Rosie S. Hails, John Ingram, Tim Lang, Fergus Lyon, Simon Lusher, Tom MacMillan, Sue Newton, S. Pearson S. Pritchard, D. Sanders, A. Sanderson Bellamy, M. Steven, A. Trickett, A. Voysey, C. Watson, D. Whitby, K. Whiteside

Scoping Potential Routes to UK Civil Unrest via the Food System: Results of a Structured Expert Elicitation

October 2023 Sustainability 2023, 15(20), 14783

DOI: 10.3390/su152014783

106. S. J. Buckton, I. Fazey, .B. Sharpe, E. S. Om, B. Doherty, P. Ball, K. Denby, M. Bryant, R. Lait, **S. Bridle**, M. Cain, E. Carmen, L. Collins, N. Nixon, C. Yap, A. Connolly, B. Fletcher, A.

Frankowska, G. Gardner, A. James, I. Kendrick, A. Kluczkovski, S. Mair, B. Morris, M. Sinclair

The Regenerative Lens: A conceptual framework for regenerative social-ecological systems

July 2023 One Earth 6(7), pp 761-932

DOI:10.1016/j.oneear.2023.06.006

105. A. Amara, L. F. de la Bella, S. Birrer, **S. Bridle**, J.P.Cordero, G. Favole, I. Harrison, I. W. Harry, W. G. Hartley, C. Krawczyk, A. Lundgren, B. Nord, L. K. Nuttall, R. P. Rollins, P. Sudek, S. Tam, N. Tessore, A. E. Tolley, K. Umetsu, A. R. Williamson, and L. Wolz
SkyPy: A package for modelling the Universe
September 2021 *The Journal of Open Source Software* 6(65):3056 Follow journal
DOI: 10.21105/joss.03056

104. Cordero, Juan P.; Harrison, Ian; Rollins, Richard P.; Bernstein, G. M.; **Bridle, S. L.**; + DES Collaboration
Dark Energy Survey Year 3 results: marginalization over redshift distribution uncertainties using ranking of discrete realizations
DOI: 10.1093/mnras/stac147 arXiv: arXiv:2109.09636 Bibcode: 2022MNRAS.511.2170C

103. MacCrann, N.; Becker, M. R.; McCullough, J.; Amon, A.; Gruen, D.; Jarvis, M.; Choi, A.; Troxel, M. A.; Sheldon, E.; Yanny, B.; Herner, K.; Dodelson, S.; Zuntz, J.; Eckert, K.; Rollins, R. P.; Varga, T. N.; Bernstein, G. M.; Gruendl, R. A.; Harrison, I.; Hartley, W. G.; Sevilla-Noarbe, I.; Pieres, A.; **Bridle, S. L.**; Myles, J.; Alarcon, A.; Everett, S.; Sánchez, C.; Huff, E. M.; Tarsitano, F.; Gatti, M.; Secco, L. F.; + DES Collaboration
Dark Energy Survey Y3 results: blending shear and redshift biases in image simulations
DOI: 10.1093/mnras/stab2870 arXiv: arXiv:2012.08567 Bibcode: 2022MNRAS.509.3371M

102. Doherty, B., Bryant, M., Denby, K., Fazey, I., **Bridle, S.**, Hawkes, C., Cain, M., Steven Banwart, Lisa Collins, Kate Pickett, Myles Allen ,Peter Ball, Grace Gardner, Esther Carmen, Maddie Sinclair, Alana Kluczkovski, Ulrike Ehgartner, Belinda Morris, Anthonia James, Christopher Yap, Eugyen Suzanne Om, ... Connolly, A. (2021).
Transformations to regenerative food systems—An outline of the FixOurFood project.
November 2021 *Nutrition Bulletin* 47(1):106-114
DOI: 10.1111/nbu.12536 arXiv:1408.4742

101. J. Tereza da Silva, J. Garzillo, F. Rauber, A. Kluczkovski, X. Rivera, G. Lopes da Cruz, A. Frankowska, C. Adriano Martins, M. Louzada, C. Monteiro, C. Reynolds, **S. Bridle**, R. Levy
Greenhouse gas emissions, water footprint, and ecological footprint of food purchases according to their degree of processing in Brazilian metropolitan areas: a time-series study from 1987 to 2017
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The Lancet Planetary Health 5(11):e775-e785
DOI:[https://doi.org/10.1016/S2542-5196\(21\)00254-0](https://doi.org/10.1016/S2542-5196(21)00254-0)

100. *A. Kluczkovski, R. Lait, C. A. Martins, C. Reynolds, P. Smith, Z. Woffenden, J. Lynch, A. Frankowska, F. Harris, D. Johnson, J. C. G. Halford, J. Cook, J. Tereza da Silva, X. Schmidt Rivera, J. L. Huppert, M. Lord, J. Mclaughlin, **S. Bridle** (2021)
Learning in lockdown: using the COVID-19 crisis to teach kids about food and climate change.
Nutrition Bulletin.
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Using Natural Language Processing and Artificial Intelligence to Explore the Nutrition and Sustainability of Recipes and Food. Frontiers in Artificial Intelligence, 3.
[doi:10.3389/frai.2020.621577](https://doi.org/10.3389/frai.2020.621577)

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Dark Energy Survey Year 1 Results: Tomographic cross-correlations between Dark Energy Survey galaxies and CMB lensing from South Pole Telescope +Planck

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<https://arxiv.org/abs/1811.02375>

89. *Tessore, N.; **Bridle, S.** *Moment-based ellipticity measurement as a statistical parameter estimation problem*

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Weak-lensing analysis of SPT-selected galaxy clusters using Dark Energy Survey Science Verification data

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87. Zuntz, J.; Sheldon, E.; Samuroff, S.; Troxel, M. A.; Jarvis, M.; MacCrann, N.; Gruen, D.; Prat, J.; Sánchez, C.; Choi, A.; **Bridle, S. L.** et al.

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86. Troxel, M. A.; MacCrann, N.; Zuntz, J.; Eifler, T. F.; Krause, E.; Dodelson, S.; Gruen, D.; Blazek, J.; Friedrich, O.; Samuroff, S.; Prat, J.; Secco, L. F.; Davis, C.; Ferté, A.; DeRose, J.; Alarcon, A.; Amara, A.; Baxter, E.; Becker, M. R.; Bernstein, G. M.; **Bridle, S. L.** et al.

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Joint analysis of galaxy-galaxy lensing and galaxy clustering: Methodology and forecasts for Dark Energy Survey
<https://doi.org/10.48550/arXiv.1507.05353>
- 81.** P. Melchior, D. Gruen, T. McClintock, T. N. Varga, E. Sheldon, E. Rozo, A. Amara, M. R. Becker, B. A. Benson, A. Bermeo, **S. L. Bridle**, et al. (2nd tier)
Weak-lensing mass calibration of redMaPPer galaxy clusters in Dark Energy Survey Science Verification data
<https://arxiv.org/abs/1610.06890> MNRAS submitted
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<https://arxiv.org/abs/1609.08167> MNRAS submitted
- 79.** *N. MacCrann, J. Aleksić, A. Amara, **S. L. Bridle**, et al. *Inference from the small scales of cosmic shear with current and future Dark Energy Survey data* MNRAS 465, 2567
<https://arxiv.org/abs/1608.01838>
- 78.** *Samuroff, S., Troxel, M. A., **Bridle, S. L.**, Zuntz, J., MacCrann, N., Krause, E., Eifler, T., Kirk, D. *Simultaneous Constraints on Cosmology and Photometric Redshift Bias from Weak Lensing and Galaxy Clustering*
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- 77.** **S. Bridle**, *J. Elvin-Poole (corresponding author), J. Evans, S. Fernandez, P. Guzowski, S. Soldner-Rembold *A Combined View of Sterile-Neutrino Constraints from CMB and Neutrino Oscillation Measurements*
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- 75.** Kacprzak, T.; Kirk, D.; Friedrich, O.; Amara, A.; Refregier, A.; Marian, L.; Dietrich, J. P.; Suchyta, E.; Aleksić, J.; Bacon, D.; Becker, M. R.; Bonnett, C.; **Bridle, S. L.**, et al
Cosmology constraints from shear peak statistics in Dark Energy Survey Science Verification data
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MNRAS Volume 460, Issue 2, p.1270-1299 Publication Date: 08/2016

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Cosmic shear measurements with Dark Energy Survey Science Verification data

PRD Volume 94, Issue 2, id.022002, Publication Date: 07/2016

DOI: [10.1103/PhysRevD.94.022002](https://doi.org/10.1103/PhysRevD.94.022002) <http://arxiv.org/abs/1507.05598>

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Wide-Field Lensing Mass Maps from DES Science Verification Data
<http://arxiv.org/abs/1505.01871>

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Cosmic Discordance: Are Planck CMB and CFHTLenS weak lensing measurements out of tune?
Monthly Notices of the Royal Astronomical Society, Volume 451, Issue 3, p.2877-2888, 08/2015 [51]
arXiv:1408.4742

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Optimising Spectroscopic and Photometric Galaxy Surveys: Same-sky Benefits for Dark Energy and Modified Gravity
Monthly Notices of the Royal Astronomical Society, Volume 451, Issue 4, p.4424-4444, 08/2015
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Conference, Giardini Naxos (Italy), June 9th-13th 2014
19 pages, 6 figures. Cosmology Chapter, Advancing Astrophysics with the SKA (AASKA14)
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Synergy between the Large Synoptic Survey Telescope and the Square Kilometre Array
SKA Synergies Chapter, Advancing Astrophysics with the SKA (AASKA14) Conference, Giardini Naxos (Italy), June 9th-13th 2014
<http://arxiv.org/abs/1501.03977>

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2. Mapping and Simulating Systematics due to Spatially Varying Observing Conditions in DES Science Verification Data

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