

### Publication statistics

As of June 1, 2020, I have 15 peer-reviewed papers and 4 pre-prints on arXiv, with a total of 327 citations, and h-index=9 (taken from NASA-ADS). The most up-to-date list of my publications can be found from ADS here:

[http://adsabs.harvard.edu/cgi-bin/basic\\_connect?qsearch=Kannawadi+&version=1](http://adsabs.harvard.edu/cgi-bin/basic_connect?qsearch=Kannawadi+&version=1)

or from my Google scholar profile: <https://scholar.google.nl/citations?user=QoX9bu8AAAAJ&hl=en>

### Pre-prints currently on arXiv

- [Bla+20] C. Blake, A. Amon, M. Asgari, M. Bilicki, A. Dvornik, T. Erben, B. Giblin, K. Glazebrook, C. Heymans, H. Hildebrandt, B. Joachimi, S. Joudaki, **A. Kannawadi**, K. Kuijken, C. Lidman, D. Parkinson, H. Shan, T. Tröster, J. L. van den Busch, C. Wolf, and A. H. Wright. “Testing gravity using galaxy-galaxy lensing and clustering amplitudes in KiDS-1000, BOSS and 2dFLenS”. In: *arXiv e-prints*, arXiv:2005.14351 (May 2020), arXiv:2005.14351. arXiv: 2005.14351 [astro-ph.CO].
- [Wri+20] A. H. Wright, H. Hildebrandt, J. L. van den Busch, C. Heymans, B. Joachimi, **A. Kannawadi**, and K. Kuijken. “KiDS+VIKING-450: Improved cosmological parameter constraints from redshift calibration with self-organising maps”. In: *arXiv e-prints*, arXiv:2005.04207 (May 2020), arXiv:2005.04207. arXiv: 2005.04207 [astro-ph.CO].
- [Lin+20] L. Linke, P. Simon, P. Schneider, T. Erben, D. J. Farrow, C. Heymans, H. Hildebrandt, A. M. Hopkins, **A. Kannawadi**, N. R. Napolitano, C. Sifón, and A. H. Wright. “KiDS+VIKING+GAMA: Testing semi-analytic models of galaxy evolution with galaxy-galaxy-galaxy-lensing”. In: *arXiv e-prints*, arXiv:2005.02419 (May 2020), arXiv:2005.02419. arXiv: 2005.02419 [astro-ph.CO].
- [Jou+19] S. Joudaki, H. Hildebrandt, D. Traykova, N. E. Chisari, C. Heymans, **A. Kannawadi**, K. Kuijken, A. H. Wright, M. Asgari, T. Erben, H. Hoekstra, B. Joachimi, L. Miller, T. Tröster, and J. L. van den Busch. “KiDS+VIKING-450 and DES-Y1 combined: Cosmology with cosmic shear”. In: *arXiv e-prints*, arXiv:1906.09262 (June 2019), arXiv:1906.09262. arXiv: 1906.09262 [astro-ph.CO].

### Complete list of peer-reviewed papers

- [Euc+20] Euclid Collaboration, P. Paykari, T. Kitching, H. Hoekstra, R. Azzollini, V. F. Cardone, M. Cropper, C. A. J. Duncan, **A. Kannawadi**, L. Miller, et al. “Euclid preparation. VI. Verifying the performance of cosmic shear experiments”. In: *A&A* 635, A139 (Mar. 2020), A139. DOI: 10.1051/0004-6361/201936980. arXiv: 1910.10521 [astro-ph.CO].
- [Asg+20] M. Asgari, T. Tröster, C. Heymans, H. Hildebrandt, J. L. van den Busch, A. H. Wright, A. Choi, T. Erben, B. Joachimi, S. Joudaki, **A. Kannawadi**, K. Kuijken, C.-A. Lin, P. Schneider, and J. Zuntz. “KiDS+VIKING-450 and DES-Y1 combined: Mitigating baryon feedback uncertainty with COSEBIs”. In: *A&A* 634, A127 (Feb. 2020), A127. DOI: 10.1051/0004-6361/201936512. arXiv: 1910.05336 [astro-ph.CO].
- [Xia+20] Q. Xia, N. Robertson, C. Heymans, A. Amon, M. Asgari, Y.-C. Cai, T. Erben, J. Harnois-Déraps, H. Hildebrandt, **A. Kannawadi**, K. Kuijken, P. Schneider, C. Sifón, T. Tröster, and A. H. Wright. “A gravitational lensing detection of filamentary structures connecting luminous red galaxies”. In: *A&A* 633, A89 (Jan. 2020), A89. DOI: 10.1051/0004-6361/201936678. arXiv: 1909.05852 [astro-ph.CO].
- [Hil+20] H. Hildebrandt, F. Köhlinger, J. L. van den Busch, B. Joachimi, C. Heymans, **A. Kannawadi**, A. H. Wright, M. Asgari, C. Blake, H. Hoekstra, et al. “KiDS+VIKING-450: Cosmic shear tomography with optical and infrared data”. In: *A&A* 633, A69 (Jan. 2020), A69. DOI: 10.1051/0004-6361/201834878. arXiv: 1812.06076 [astro-ph.CO].
- [Vak+19] M. Vakili, M. Bilicki, H. Hoekstra, N. E. Chisari, M. J. I. Brown, C. Georgiou, **A. Kannawadi**, K. Kuijken, and A. H. Wright. “Luminous red galaxies in the Kilo-Degree Survey: selection with broad-band photometry and weak lensing measurements”. In: *MNRAS* 487.3 (Aug. 2019), pp. 3715–3733. DOI: 10.1093/mnras/stz1249. arXiv: 1811.02518 [astro-ph.CO].
- [A K+19] **A. Kannawadi**, H. Hoekstra, L. Miller, M. Viola, I. Fenech Conti, R. Herbonnet, T. Erben, C. Heymans, H. Hildebrandt, K. Kuijken, M. Vakili, and A. H. Wright. “Towards emulating cosmic shear data: revisiting the calibration of the shear measurements for the Kilo-Degree Survey”. In: *A&A* 624, A92 (Apr. 2019), A92. DOI: 10.1051/0004-6361/201834819. arXiv: 1812.03983 [astro-ph.CO].
- [Geo+19] C. Georgiou, H. Johnston, H. Hoekstra, M. Viola, K. Kuijken, B. Joachimi, N. E. Chisari, D. J. Farrow, H. Hildebrandt, B. W. Holwerda, and **A. Kannawadi**. “The dependence of intrinsic alignment of galaxies on wavelength using KiDS and GAMA”. In: *A&A* 622, A90 (Feb. 2019), A90. DOI: 10.1051/0004-6361/201834219. arXiv: 1809.03602 [astro-ph.CO].

- [Har+18] J. Harnois-Déraps, A. Amon, A. Choi, V. Demchenko, C. Heymans, **A. Kannawadi**, R. Nakajima, E. Sirks, L. van Waerbeke, Yan-Chuan Cai, B. Giblin, H. Hildebrandt, H. Hoekstra, L. Miller, and T. Tröster. “Cosmological simulations for combined-probe analyses: covariance and neighbour-exclusion bias”. In: MNRAS 481.1 (Nov. 2018), pp. 1337–1367. DOI: 10.1093/mnras/sty2319. arXiv: 1805.04511 [astro-ph.CO].
- [Amo+18] A. Amon, C. Heymans, D. Klaes, T. Erben, C. Blake, H. Hildebrandt, H. Hoekstra, K. Kuijken, L. Miller, C. B. Morrison, A. Choi, J. T. A. de Jong, K. Glazebrook, N. Irisarri, B. Joachimi, S. Joudaki, **A. Kannawadi**, C. Lidman, N. Napolitano, D. Parkinson, P. Schneider, E. van Uitert, M. Viola, and C. Wolf. “KiDS-i-800: comparing weak gravitational lensing measurements from same-sky surveys”. In: MNRAS 477 (July 2018), pp. 4285–4307. DOI: 10.1093/mnras/sty859. arXiv: 1707.04105.
- [Pla+16] A. A. Plazas, C. Shapiro, **A. Kannawadi**, R. Mandelbaum, J. Rhodes, and R. Smith. “The Effect of Detector Nonlinearity on WFIRST PSF Profiles for Weak Gravitational Lensing Measurements”. In: PASP 128.10 (Oct. 2016), p. 104001. DOI: 10.1088/1538-3873/128/968/104001. arXiv: 1605.01001 [astro-ph.IM].
- [Kan+16] **A. Kannawadi**, C. A. Shapiro, R. Mandelbaum, C. M. Hirata, J. W. Kruk, and J. D. Rhodes. “The Impact of Interpixel Capacitance in CMOS Detectors on PSF Shapes and Implications for WFIRST”. In: PASP 128.9 (Sept. 2016), p. 095001. DOI: 10.1088/1538-3873/128/967/095001. arXiv: 1512.01570 [astro-ph.IM].
- [KML15] **A. Kannawadi**, R. Mandelbaum, and C. Lackner. “The impact of cosmic variance on simulating weak lensing surveys”. In: MNRAS 449 (June 2015), pp. 3597–3612. DOI: 10.1093/mnras/stv520. arXiv: 1412.1094.
- [Man+14] R. Mandelbaum, B. Rowe, J. Bosch, C. Chang, F. Courbin, M. Gill, M. Jarvis, **A. Kannawadi**, T. Kacprzak, C. Lackner, et al. “The Third Gravitational Lensing Accuracy Testing (GREAT3) Challenge Handbook”. In: ApJS 212, 5 (May 2014), p. 5. DOI: 10.1088/0067-0049/212/1/5. arXiv: 1308.4982.
- [KSL16] **A. Kannawadi**, A. Sharma, and A. Lakshminarayan. “Persistent entanglement in a class of eigenstates of quantum Heisenberg spin glasses”. In: EPL (Europhysics Letters) 115 (Sept. 2016), p. 57005. DOI: 10.1209/0295-5075/115/57005. arXiv: 1407.5090 [quant-ph].

## Papers in preparation

The titles link to the live version of the drafts

**A. Kannawadi** et al. “*The impact of Interpixel Capacitance in hybrid-CMOS detectors on shear calibration biases for WFIRST*”.

**A. Kannawadi**, E. Rosenberg, & H. Hoekstra “*On the applicability of metacalibration for Euclid*”.

H. Hoekstra, **A. Kannawadi** & L. Miller “*A study of instrumental effects in OmegaCAM data*”.

Last updated on May 23, 2020