

# Samuel Hinton

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## Publications

### Core Author

Can redshift errors bias measurements of the Hubble Constant?

Davis, Tamara M. et al. *MNRAS* (Sept. 2019) p. 2279

Steve: A Hierarchical Bayesian Model for Supernova Cosmology

**Hinton, S. R.** et al. *The Astrophysical Journal* 876.1 (Apr. 2019) p. 15. *American Astronomical Society*

Measuring the 2D baryon acoustic oscillation signal of galaxies in WiggleZ: cosmological constraints

**Hinton, S. R.** et al. *MNRAS* 464 (Feb. 2017) pp. 4807–4822

ChainConsumer

**Hinton, S. R.** *JOSS* 1.4 (Aug. 2016). *The Open Journal*

Marz: Manual and automatic redshifting software

**Hinton, S.R.** et al. *Astronomy and Computing* 15 (2016) pp. 61–71

### Science Contributions

First Cosmology Results using Type Ia Supernovae from the Dark Energy Survey: Constraints on Cosmological Parameters

Abbott, T. M. C. et al. *ApJ* 872.2, L30 (Feb. 2019) p. L30

First Cosmology Results Using SNe Ia from the Dark Energy Survey: Analysis, Systematic Uncertainties, and Validation

Brout, D. et al. *ApJ* 874.2, 150 (Apr. 2019) p. 150

First Cosmology Results Using Type Ia Supernovae from the Dark Energy Survey: Photometric Pipeline and Light-curve Data Release

Brout, D. et al. *ApJ* 874.1, 106 (Mar. 2019) p. 106

First cosmology results using Type Ia supernova from the Dark Energy Survey: simulations to correct supernova distance biases

Kessler, R. et al. *MNRAS* 485.1 (May 2019) pp. 1171–1187

First cosmology results using Type Ia supernovae from the dark energy survey: effects of chromatic corrections to supernova photometry on measurements of cosmological parameters

Lasker, J. et al. *MNRAS* 485.4 (June 2019) pp. 5329–5344

First cosmological results using Type Ia supernovae from the Dark Energy Survey: measurement of the Hubble constant

Macaulay, E. et al. *MNRAS* 486.2 (June 2019) pp. 2184–2196

OzDES multifibre spectroscopy for the Dark Energy Survey: 3-yr results and first data release

Childress, M. J. et al. *Monthly Notices of the Royal Astronomical Society* 472 (Nov. 2017) pp. 273–288

OzDES multifibre spectroscopy for the Dark Energy Survey: first-year operation and results

Yuan, F. et al. *Monthly Notices of the Royal Astronomical Society* 452 (Sept. 2015) pp. 3047–3063

### Infrastructure / Data Contributions

Cosmological Constraints from Multiple Probes in the Dark Energy Survey

Abbott, T. M. C. et al. *Phys. Rev. Lett.* 122 (17 May 2019) p. 171301. *American Physical Society*

C IV black hole mass measurements with the Australian Dark Energy Survey (OzDES)

Hoormann, J. K. et al. *MNRAS* 487.3 (Aug. 2019) pp. 3650–3663

Dark Energy Survey year 1 results: Cosmological constraints from galaxy clustering and weak lensing  
Abbott, T. M. C. et al. *Phys. Rev. D* 98 (4 Aug. 2018) p. 043526. *American Physical Society*

The Dark Energy Survey: Data Release 1  
Abbott, T. M. C. et al. *ApJS* 239, 18 (Dec. 2018) p. 18

The WiggleZ Dark Energy Survey: final data release and the metallicity of UV-luminous galaxies  
Drinkwater, M. J. et al. *Monthly Notices of the Royal Astronomical Society* 474 (Mar. 2018) pp. 4151–4168

Dark Energy Survey year 1 results: Galaxy clustering for combined probes  
Elvin-Poole, J. et al. *Phys. Rev. D* 98 (4 Aug. 2018) p. 042006. *American Physical Society*

Dark Energy Survey Year 1 Results: Cross-Correlation Redshifts - Methods and Systematics Characterization  
Gatti, M. et al. *Monthly Notices of the Royal Astronomical Society* (Feb. 2018)

DES science portal: Computing photometric redshifts  
Gschwend, J. et al. *Astronomy and Computing* 25 (Oct. 2018) pp. 58–80

Dark Energy Survey Year 1 Results: redshift distributions of the weak-lensing source galaxies  
Hoyle, B et al. *Monthly Notices of the Royal Astronomical Society* 478.1 (2018) pp. 592–610

Quasar Accretion Disk Sizes from Continuum Reverberation Mapping from the Dark Energy Survey  
Mudd, D. et al. *ApJ* 862, 123 (Aug. 2018) p. 123

Rapidly evolving transients in the Dark Energy Survey  
Pursiainen, M et al. *Monthly Notices of the Royal Astronomical Society* 481.1 (2018) pp. 894–917

The Taipan Galaxy Survey: Scientific Goals and Observing Strategy  
da Cunha, E. et al. *PASA* 34, e047 (Oct. 2017) e047

Discovery of a  $z = 0.65$  post-starburst BAL quasar in the DES supernova fields  
Mudd, D. et al. *Monthly Notices of the Royal Astronomical Society* 468 (July 2017) pp. 3682–3688

A Study of Quasar Selection in the Supernova Fields of the Dark Energy Survey  
Tie, S. S. et al. *AJ* 153, 107 (Mar. 2017) p. 107

The 2-degree Field Lensing Survey: design and clustering measurements  
Blake, C. et al. *Monthly Notices of the Royal Astronomical Society* 462 (Nov. 2016) pp. 4240–4265

## In Journal Review

Barry and the BAO Model Comparison  
**Hinton, Samuel R.**, Cullan Howlett, and Tamara M. Davis *arXiv e-prints, arXiv:1912.01175 (Dec. 2019) arXiv:1912.01175*

The Mystery of Photometric Twins DES17X1boj and DES16E2bjy  
Pursiainen, M. et al. *arXiv e-prints, arXiv:1911.12083 (Nov. 2019) arXiv:1911.12083*

First Cosmology Results Using Type Ia Supernovae From the Dark Energy Survey: Survey Overview and Supernova Spectroscopy  
D'Andrea, C. B. et al. *arXiv e-prints (Nov. 2018)*

Quasar Accretion Disk Sizes from Continuum Reverberation Mapping in the DES Standard Star Fields  
Yu, Z. et al. *arXiv e-prints (Nov. 2018)*