Samuel Hinton

PhD Candidate, samuelreay@gmail.com, CosmicCoding.com.au

Publications

Core Author

Barry and the BAO Model Comparison

Hinton, Samuel R., Cullan Howlett, and Tamara M. Davis MNRAS (Feb. 2020)

Pippin: A pipeline for supernova cosmology

Hinton, Samuel and Dillon Brout Journal of Open Source Software 5.47 (2020) p. 2122. The Open Journal

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. | OSS 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. Apl 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 Lightcurve 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

- Quasar Accretion Disk Sizes from Continuum Reverberation Mapping in the DES Standard-star Fields Yu, Zhefu et al. ApJS 246.1, 16 (Jan. 2020) p. 16
- 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. Al 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

- Increasing the census of L and T dwarfs in wide binary and multiple systems using Dark Energy Survey DR1 and Gaia DR2 data
 - dal Ponte, M. et al. arXiv e-prints, arXiv:2001.11015 (Jan. 2020) arXiv:2001.11015
- DES16C3cje: A low-luminosity, long-lived supernova Gutiérrez, C. P. et al. arXiv e-prints, arXiv:2001.11559 (Jan. 2020) arXiv:2001.11559
- Supernova Siblings: Assessing the Consistency of Properties of Type Ia Supernovae that Share the Same Parent Galaxies
 - Scolnic, D. et al. arXiv e-prints, arXiv:2002.00974 (Feb. 2020) arXiv:2002.00974
- First Cosmology Results using Type Ia Supernovae from the Dark Energy Survey: The Effect of Host Galaxy Properties on Supernova Luminosity
 - Smith, M. et al. arXiv e-prints, arXiv:2001.11294 (Jan. 2020) arXiv:2001.11294
- Supernova Host Galaxies in the Dark Energy Survey: I. Deep Coadds, Photometry, and Stellar Masses

Wiseman, P. et al. arXiv e-prints, arXiv:2001.02640 (Jan. 2020) arXiv:2001.02640

Milky Way Satellite Census – II. Galaxy-Halo Connection Constraints Including the Impact of the Large Magellanic Cloud

Nadler, E. O. et al. arXiv e-prints, arXiv:1912.03303 (Dec. 2019) arXiv:1912.03303

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)