# JOSHUA S. SPEAGLE (沈佳士)

Statistical Sciences | Astronomy & Astrophysics University of Toronto

joshspeagle.github.io | j.speagle@utoronto.ca

#### **PUBLICATIONS**

I am an author on **75+ papers** that have **5400+** citations (<u>h-index=27</u>). This includes: 10+ papers as (co-)lead author with 1600+ citations (<u>h-index=10</u>)

15+ papers with significant contributions with 1300+ citations (h-index=13)

3 papers led by students (in blue) with 15+ citations (<u>h-index=2</u>)

Most of my papers can be found online on  $\underline{\text{arxiv}}$  and  $\underline{\text{ADS}}$ . My ORCID is  $\underline{0000\text{-}0003\text{-}}$  2573-9832.

## (Co-)Lead Author

11. **Speagle, J. S.** et al. [20 additional co-authors], accepted to The Astrophysical Journal

Mapping the Milky Way in 5-D with 170 Million Stars

10. **Speagle, J. S.** et al. [20 additional co-authors], submitted to The Astrophysical Journal

Deriving Stellar Properties, Distances, and Reddenings from Photometry and Astrometry with *brutus* 

9. **Portillo, S. K. N. & Speagle, J. S.**; & Finkbeiner, D. P., 2020, The Astronomical Journal, Vol. 159, Iss. 4, id. 165

Photometric Biases in Modern Surveys

arxiv: <u>1902.02374</u> **Media**: <u>AAS</u>

8. **Speagle, J. S.**, 2020, Monthly Notices of the Royal Astronomical Society, Vol. 493, Iss. 3, p. 3132-3158

dynesty: A Dynamic Nested Sampling Package for Estimating Bayesian Posteriors and Evidences

arxiv: 1904.02180

7. **Speagle, J. S.** et al. [11 additional co-authors], 2019, Monthly Notices of the Royal Astronomical Society, Vol. 490, Iss. 4, p. 5658-5677

Galaxy-Galaxy Lensing in HSC: Validation Tests and the Impact of Heterogeneous Spectroscopic Training Sets

arxiv: 1906.05876

6. **Zucker, C. & Speagle, J. S.**; Schlafly, E. F.; Green, G. M., Finkbeiner, D. P.; Goodman, A. A.; & Alves, J., 2019, The Astrophysical Journal, Vol. 879, Iss. 2, id. 125

A Large Catalog of Accurate Distances to Local Molecular Clouds: The Gaia DR2 Edition

arxiv: <u>1902.01425</u>

5. **Speagle, J. S.** & Eisenstein, D. J., 2017, Monthly Notices of the Royal Astronomical Society, Vol. 469, Iss. 1, p. 1205-1224

Deriving Photometric Redshifts with Fuzzy Archetypes and Self-Organizing Maps II. Implementation

arxiv: <u>1510.08080</u>

4. **Speagle, J. S.** & Eisenstein, D. J., 2017, Monthly Notices of the Royal Astronomical Society, Vol. 469, Iss. 1, p. 1186-1204

Deriving Photometric Redshifts with Fuzzy Archetypes and Self-Organizing Maps I. Methodology

arxiv: 1510.08073

3. **Speagle, J. S.**; Capak, P. L.; Eisenstein, D. J.; Masters, D. C.; & Steinhardt, C. L., 2016, Monthly Notices of the Royal Astronomical Society, Vol. 461, Iss. 4, p. 3432-3442

Exploring Photometric Redshifts as an Optimization Problem: An Ensemble MCMC and Simulated Annealing-Driven Template-fitting Approach arxiv: 1508.02484

2. **Speagle, J. S.**; Steinhardt, C. L.; Capak, P. L.; & Silverman, J. D., 2014, The Astrophysical Journal Supplement Series, Vol. 214, Iss. 2, id. 15

A Highly Consistent Framework for the Evolution of the Star-Forming 'Main Sequence' from  $z\sim0$ -6

arxiv: 1405.2041

1. **Speagle, J. S.**; Kaplan, D. L.; & van Kerkwijk, M. H., 2011, The Astrophysical Journal, Vol. 743, Iss. 2, id. 183

The X-ray Counterpart of the High-B Pulsar J0726-2612

arxiv: 1111.2877 Media: Astrobites

## (Co-)Lead Author (Non-Refereed)

- 2. **Speagle, J. S.** & Eadie, G. M., 2021, Nature Astronomy, Vol. 5, p. 971-972 Making the Sum Greater than its Parts
- 1. **Speagle, J. S.,** 2019, arxiv e-print

A Conceptual Introduction to Markov Chain Monte Carlo Methods arxiv: 1909.12313

## Significant Contribution

- 19. Grondin, S. M.; Webb, J. J.; Leigh, N. W. C.; Speagle, J. S.; & Khalifeh, R. J., 2022, submitted to Monthly Notices of the Royal Astronomical Society Searching for the Extra-Tidal Stars of Globular Clusters using High-Dimensional Analysis and a Core Particle Spray Code arxiv: 2207.11263
- 18. Leja, J.; **Speagle, J. S.**; Ting, Y.-S.; Johnson, B. D.; Conroy, C.; Whitaker, K. E.; Nelson, E. J.; & Franx, M., 2021, submitted to The Astrophysical Journal A New Census of the 0.2 < z < 3.0 Universe, Part II: The Star-Forming Sequence arxiv: 2110.04314
- 17. **Shen, J.**; Eadie, G. M.; Murray, N.; Zaritsky, D.; **Speagle, J. S.**; Ting, Y.-S.; Conroy, C.; Cargile, P. A.; Johnson, B. D.; Naidu, R.; & Han, J. J., 2022, The Astrophysical Journal, Vol. 925, Iss. 1, id. 1

  The Mass of the Milky Way from the H3 Survey arxiv: 2111.09327 **Media**: SYFY
- Zucker, C.; Goodman, A. G.; Alves, J.; Bialy, S.; Foley, M.; Speagle, J. S.; Groβschedl, J.; Finkbeiner, D. P.; Burkert, A.; Khimey, D.; & Swiggum, C., 2022, Nature, Vol. 601, Iss. 7893, p. 334-337
  Star Formation Near the Sun is Driven by Expansion of the Local Bubble
- 15. Johnson, B. D.; Leja, J.; Conroy, C.; & Speagle, J. S., 2021, The Astrophysical Journal Supplement Series, Vol. 254, Iss. 2, id. 22 Stellar Population Inference with Prospector arxiv: 2012.01426
- Das, K. K.; Zucker, C.; Speagle, J. S.; Goodman, A.; Schlafly, E. F.; Green, G. M.; Finkbeiner, D. P.; & Alves, J., 2020, Monthly Notices of the Royal Astronomical Society, Vol. 498, Iss. 4, p. 5863-5872
   Constraining the Distance to the North Polar Spur with Gaia DR2 arxiv: 2009.01320

   Media: Quanta, CfA Science Update
- Cargile, P. A.; Conroy, C.; Johnson, B. D.; Ting, Y.-S.; Bonaca, A.; Dotter, A.;
   & Speagle, J. S., 2020, The Astrophysical Journal, Vol. 900, Iss. 1, id. 28
   MINESweeper: Spectrophotometric Modeling of Stars in the Gaia Era arxiv: 1907.07690
- Leja, J.; Speagle, J. S.; Johnson, B. D.; Conroy, C.; van Dokkum, P.; & Franx, M., 2020, The Astrophysical Journal, Vol. 893, Iss. 2, id. 111
   A New Census of the 0.2 < z < 3.0 Universe, Part I: The Stellar Mass Function arxiv: 1910.04168</p>
- 11. Alves, J.; Zucker, C.; Goodman, A. A.; **Speagle, J. S.**; Meingast, S.; Robitaille, T.; Finkbeiner, D. P.; Schlafly, E. F.; & Green, G. M., 2020, Nature, Vol. 578, Iss. 7794, p. 237-239

- 10. Zucker, C.; Speagle, J. S.; Schlafly, E. F.; Green, G. M.; Finkbeiner, D. P., Goodman, A.; & Alves, J., 2020, Astronomy & Astrophysics, Vol. 633, id. A51 A Compendium of Distances to Molecular Clouds in the Star Formation Handbook arxiv: 2001.00591
- Green, G. M.; Schlafly, E. F.; Zucker, C.; Speagle, J. S.; & Finkbeiner, D. P., 2019, The Astrophysical Journal, Vo. 887, Iss. 1, id. 93
   A 3D Dust Map Based on Gaia, Pan-STARRS 1 and 2MASS arxiv: 1905.02734
- 8. Cook, B. A.; Conroy, C.; van Dokkum, P.; & Speagle, J. S., 2019, The Astrophysical Journal, Vol. 876, Iss. 1, id. 78

  Measuring Star-Formation Histories, Distances, and Metallicities with Pixel Color-Magnitude Diagrams I: Model Definition and Mock Tests arxiv: 1904.00011
- 7. Safarzadeh, M.; Berger, E.; Leja, J.; & Speagle, J. S., 2019, The Astrophysical Journal Letters, Vol. 878, Iss. 1, id. L14

  Measuring the Delay Time Distribution of Binary Neutron Stars III. Using the Individual Star Formation Histories of Gravitational Wave Event Host Galaxies in the Local Universe

  arxiv: 1905.04310 Media: AAS NOVA
- 6. Leja, J.; Carnall, A. C.; Johnson, B. D.; Conroy, C.; & **Speagle, J. S.**, 2019, The Astrophysical Journal, Vol. 876, Iss. 1, id. 3

  How to Measure Galaxy Star Formation Histories II: Nonparametric Models arxiv: 1811.03637
- 5. Zucker, C.; Schlafly E. F.; **Speagle, J. S.**; Green, G. M.; Portillo, S. K. N.; Finkbeiner, D. P.; & Goodman, A. A., 2018, The Astrophysical Journal, Vol. 869, Iss. 1, id. 83

Mapping Distances Across the Perseus Molecular Cloud Using CO Observations, Stellar Photometry, and Gaia DR2 Parallax Measurements arxiv: 1803.08931

4. Tanaka, M.; Coupon, J.; Hsieh, B.-C.; Mineo, S., Nishizawa, A. J.; **Speagle, J.**; Furusawa, H.; Miyazaki, S.; & Murayama, H., 2018, Publications of the Astronomical Society of Japan, Vol. 70, Iss. SP1, id. S9

Photometric Redshifts for the Hyper Suprime-Cam Subaru Strategic Program Data Release 1

arxiv: <u>1704.05988</u>

3. Steinhardt, C. L.; Capak, P. L.; Masters, D. C.; & Speagle, J. S., 2016, The Astrophysical Journal, Vol. 824, Iss. 1, id. 21

The Impossibly Early Galaxy Problem

arxiv: <u>1506.01377</u>

2. Steinhardt, C. L. & **Speagle, J. S.**, 2014, The Astrophysical Journal, Vol. 796, Iss. 1, id. 25

A Uniform History for Galaxy Evolution arxiv: 1409.2883

1. Steinhardt, C. L.; **Speagle, J. S.** et al. [22 additional co-authors], 2014, The Astrophysical Journal Letters, Vol. 791, Iss. 2, id. L25

Star Formation at  $4 \le z \le 6$  from the Spitzer Large Area Survey with Hyper-Suprime-Cam (SPLASH)

arxiv: <u>1407.7030</u> **Media**: <u>JPL</u>

## **Contributing Author**

37. Chandra, V. et al. [11 additional co-authors including **Speagle, J. S.**], 2022, submitted to The Astrophysical Journal

A Ghost in Boötes: The Least Luminous Disrupted Dwarf Galaxy arxiv: 2207.13717

36. Saydjari, A. K., Schlafly, E. F.; Lang, D.; Meisner, A. M.; Green, G. M.; Zucker, C.; Zelko, I.; **Speagle, J. S.**; Daylan, T.; Lee, A.; Valdes, F.; Schlegel, D.; & Finkbeiner, D. P., 2022, submitted to The Astrophysical Journal

The Dark Energy Camera Plane Survey 2 (DECaPS2): More Sky, Less Bias, and Better Uncertainties

arxiv: 2206.11909

35. Ashton, G. et al. [23 additional co-authors including **Speagle, J. S.**], 2022, Nature Reviews Methods Primers, Vol. 2, id. 39

Nested Sampling for Physical Scientists arxiv: 2205.15570

34. Naidu, R. P. et al. [11 additional co-authors including **Speagle, J. S.**], 2022, submitted to The Astrophysical Journal

Live Fast, Die  $\alpha$ -Enhanced: The Mass-Metallicity- $\alpha$  Relation of the Milky Way's Disrupted Dwarf Galaxies

arxiv: 2204.09057

33. Conroy, C. et al. [14 additional co-authors including **Speagle, J. S.**], 2022, submitted to The Astrophysical Journal

Birth of the Galactic Disk Revealed by the H3 Survey

arxiv: 2204.02989

32. Han, J. J. et al. [11 additional co-authors including **Speagle, J. S.**], 2022, The Astrophysical Journal, Vol. 934, Iss. 1, id. 14

A Tile in the Dark Matter Halo of the Galaxy arxiv: 2202.07662

31. Emami, R.; Hernquist, L.; Vogelsberger, M.; Shen, X.; **Speagle, J. S.**; Moreno, J.; Alcock, C.; Genel, S.; Forbes, J. C.; Marinacci, F.; & Torrey, P., 2022, submitted to The Astrophysical Journal

On the Robustness of the Velocity Anisotropy Parameter in Probing the Stellar Kinematics in Milky Way-like Galaxies: Takeaways from the TNG50 Simulation arxiv: 2202.07162

30. Leauthaud, A. & Amon, A. et al. [84 additional co-authors including **Speagle**, **J. S.**], 2022, Monthly Notices of the Royal Astronomical Society, Vol. 510, Iss. 4, p. 6150-6189

Lensing Without Borders – I. A Blind Comparison of the Amplitude of Galaxy-Galaxy Lensing Between Independent Imaging Surveys arxiv: 2111.13805

29. Sugiyama, S. et al. [26 additional co-authors including **Speagle, J. S.**], 2022, Physical Review D, Vol. 105, Iss. 12, id. 123537

HSC Year 1 Cosmology Results with the Minimal Bias Method: HSC x BOSS Galaxy-Galaxy Weak Lensing and BOSS Galaxy Clustering arxiv: 2111.10966

28. Miyatake, H. et al. [27 additional co-authors including **Speagle, J. S.**], 2021, submitted to Physical Review D

Cosmological Inference from the Emulator Based Halo Model II: Joint Analysis of Galaxy-Galaxy Weak Lensing and Galaxy Clustering from HSC-Y1 and SDSS arxiv: <u>2111.02419</u>

27. Hwang, H.-C.; Ting, Y.-S.; Conroy, C.; Zakamska, N. L.; El-Badry, K.; Cargile, P.; Zaritsky, D.; Chandra, V.; Han, J. J.; **Speagle, J. S.**; & Bonaca, A., 2022, Monthly Notices of the Royal Astronomical Society, Vol. 513, Iss. 1, p. 754-767

Wide Binaries from the H3 Survey: The Thick Disc and Halo have Similar Wide Binary Fractions arxiv: 2111.01788

26. Naidu, R. P. et al. [12 additional co-authors including **Speagle, J. S.**], 2022, The Astrophysical Journal Letters, Vol. 926, Iss. 2, id. L36

Evidence from Disrupted Halo Dwarfs that r-process Enrichment via Neutron Star Mergers is Delayed by  $> 500~{\rm Myr}$ 

arxiv: 2110.14652

- 25. Huang, S.; Leauthaud, A.; Bradshaw, C.; Hearin, A.; Behroozi, P.; Lange, J.; Green, J.; DeRose, J.; **Speagle, J. S.**; & Xhakaj, E., 2022, Monthly Notices of the Royal Astronomical Society, in press
  - The Outer Stellar Mass of Massive Galaxies: A Simple Tracer of Halo Mass with Scatter Comparable to Richness and Reduced Projection Effects arxiv: 2109.02646
- 24. Naidu, R. P.; Conroy, C.; Bonaca, A.; Zaritsky, D; Weinberger, R.; Ting, Y.-S.; Caldwell, N., Tacchella, S.; Han, J. J.; **Speagle, J. S.**; & Cargile, P. A., 2021, The Astrophysical Journal, Vol. 923, Iss. 1, id. 92

  Reconstructing the Last Major Merger of the Milky Way with the H3 Survey
- 23. Tacchella et al. [16 additional co-authors including **Speagle, J. S.**], The Astrophysical Journal, 2022, Vol. 926, Iss. 2, id. 134
  Fast, Slow, Early, Late: Quenching Massive Galaxies at z ~ 0.8
  arxiv: 2102.12494

arxiv: 2103.03251

- Zucker, C.; Goodman, A. G.; Alves, J.; Shmuel, B.; Koch, E.; Speagle, J. S.; Foley, M.; Finkbeiner, D. P.; Leike, R.; Enβlin, T.; Peek, J. E. G.; & Edenhofer, G., 2021, The Astrophysical Journal, Vol. 919, Iss. 1, id. 35
  On the Three-dimensional Structure of Local Molecular Clouds arxiv: 2109.09765
- 21. Nelson, E. J. et al. [24 additional co-authors including **Speagle, J. S.**], 2021, Monthly Notices of the Royal Astronomical Society, Vol. 508, Iss. 1, p. 219-235

Spatially Resolved Star Formation and Inside-Out Quenching in the TNG50 Simulation and 3D-HST Observations arxiv: 2101.12212

- 20. Emami, R.; Hernquist, L.; Alcock, C.; Genel, S.; Bose, S.; Weinberger, R.; Vogelsberger, M.; Shen, X.; Speagle, J. S.; Marinacci, F.; Forbes, J. C.; & Torrey, P.., 2021, The Astrophysical Journal, Vol. 918, Iss. 1, id. 7
  Inferring the Morphology of Stellar Distributions in TNG50: Twisted and Twisted-Stretched Shapes arxiv: 2012.12284
- 19. Bonaca, A.; Naidu, R. P.; Conroy, C.; Caldwell, N.; Cargile, P. A.; Han, J.; Johnson, B. D.; Kruijssen, J. M. D.; Myeong, G. C.; **Speagle, J. S.**; Ting, Y.-S.; & Zaritsky, D., 2021, The Astrophysical Journal Letters, Vol. 909, Iss. 2, id. L26

Orbital Clustering Identifies the Origins of Galactic Stellar Streams arxiv: 2012.09171

18. Green, G. M.; Tschesche, L.; Rix, H.-W.; Finkbeiner, D. P.; Zucker, C.; Schlafly, E. F.; Rybizki, J.; & **Speagle, J. S.**, 2021, The Astrophysical Journal, Vol. 907, Iss. 1, id. 57

Data-Driven Stellar Models

arxiv: 2006.16258

17. Carter, C.; Conroy, C.; Zaritsky, D.; Ting, Y.-S.; Bonaca, A.; Naidu, R. P.; Johnson, B. D.; Cargile, P. A.; Caldwell, N.; & **Speagle, J. S.**, 2021, The Astrophysical Journal, Vol. 908, Iss. 2, id. 208

Ancient Very Metal-Poor Stars Associated with the Galactic Disk in the H3 Survey

arxiv: 2012.00036

16. Desprez, G. et al. [171 additional co-authors including **Speagle, J. S.**], 2020, Astronomy & Astrophysics, Vol. 644, id. A31

Euclid Preparation. X. The Euclid Photometric-Redshift Challenge arxiv: 2009.12112

- 15. Zaritsky, D.; Conroy, C.; Naidu, R. P.; Cargile, P. A.; Putman, M.; Besla, G.; Bonaca, A.; Caldwell, N.; Han, J. J.; Johnson, B. D.; Speagle, J. S.; & Ting, Y.-S., 2020, The Astrophysical Journal Letters, Vol. 905, Iss. 1, id. L3
  Discovery of Magellanic Stellar Debris in the H3 Survey
  arxiv: 2011.09395
- 14. Johnson, B. D.; Conroy, C.; Naidu, R. P.; Bonaca, A.; Zaritsky, D.; Ting, Y.-S.; Cargile, P. A.; Han, J. J.; & **Speagle, J. S.**, 2020, The Astrophysical Journal, Vol. 900, Iss. 2, id. 103

A Diffuse Metal-Poor Component of the Sagittarius Stream Revealed by the H3 Survey

arxiv: 2007.14408

13. Cabrera-Ziri, I.; **Speagle, J. S.**; Dalessandro, E.; Usher, C.; Bastian, N. J.; Salaris, M.; Martocchia, S.; Kozhurina-Platais, V.; Niederhofer, F.; Lardo, C.; Larsen, S. S.; & Saracino, S., 2020, Monthly Notices of the Royal Astronomical Society, Vol. 495, Iss. 1, p. 375-382

Searching for Globular Cluster Chemical Anomalies on the Main Sequence of a Young Massive Cluster

arxiv: 2004.09636

12. Bonaca, A.; Conroy, C.; Hogg, D. W.; Cargile, P. A.; Caldwell, N.; Naidu, R. P.; Price-Whelan, A. M.; **Speagle, J. S.**; & Johnson, B. D., 2020, The Astrophysical Journal Letters, Vol. 892, Iss. 2, id. L37

High-Resolution Spectroscopy of the GD-1 Stellar Stream Localizes the Perturber Near the Orbital Plane of Sagittarius

arxiv: 2001.07215

11. Huang, S.; Leauthaud, A.; Hearin, A.; Behroozi, P.; Bradshaw, C.; Ardila, F.; Speagle, J. S.; Tenenti, A.; Bundy, K.; Greene, J.; Sifón, C.; & Bahcall, N., 2020, Monthly Notices of the Royal Astronomical Society, Vol. 492, Iss. 3, p. 3685-3707

> Weak Lensing Reveals a Tight Connection Between Dark Matter Halo Mass and the Distribution of Stellar Mass in Massive Galaxies

arxiv: 1811.01139 Media: CfA Science Update

10. Namikawa, T. et al. [73 additional co-authors including Speagle, J. S.], 2019, The Astrophysical Journal, Vol. 882, Iss. 1, id. 62

> Evidence for the Cross-correlation between Cosmic Microwave Background Polarization Lensing from POLARBEAR and the Cosmic Shear from Subaru Hyper Suprime-Cam

arxiv: 1904.02116

Forbes, J. C.; Krumholz, M. R.; & Speagle, J. S., 2019, Monthly Notices of the 9. Royal Astronomical Society, Vol. 487, Iss. 3, p. 3581-3606

> Towards a Radially-Resolved Semi-Analytic Model for the Evolution of Disc Galaxies Tuned with Machine Learning

arxiv: 1810.12919

8. Hikage, C. et al. [35 additional co-authors including Speagle, J. S.], 2019, Publications of the Astronomical Society of Japan, Vol. 71, Iss. 2, id. 43 Cosmology from cosmic shear power spectra with Subaru Hyper Suprime-Cam first-year data

> arxiv: 1809.09148 Media: PASI Excellent Paper Award (English)

Leja, J.; Johnson, B. D.; Conroy, C.; van Dokkum, P.; Speagle, J. S.; Brammer, 7. G.; Momcheva, I.; Skelton, R.; Whitaker, K. E.; Franx, M; & Nelson, E. J., 2019, The Astrophysical Journal, Vol. 877, Iss. 2, id. 140

> An Older, More Quiescent Universe from Panchromatic SED Fitting of the 3D-HST Survey

arxiv: <u>1812.056</u>08

6. Medezinski, E. et al. [15 additional co-authors including Speagle, J. S.], 2018, Publications of the Astronomical Society of Japan, Vol. 70, Iss. 2, id. 30 Source Selection for Cluster Weak Lensing Measurements in the Hyper Sprime-Cam Survey arxiv: 1706.00427

5. Mandelbaum, R. et al. [30 additional co-authors including Speagle, J. S.], 2018, Publications of the Astronomical Society of Japan, Vol. 70, Iss. SP1, id. S25 The first-year shear catalog of the Subaru Hyper Suprime-Cam SSP Survey

arxiv: 1705.06745

- Aihara, H. et al. [108 additional co-authors including Speagle, J. S.], 2018, Publications of the Astronomical Society of Japan, Vol. 70, Iss. SP1, id. S8
  First Data Release of the Hyper Suprime-Cam Subaru Strategic Program
  arxiv: 1702.08449
- Aihara, H. et al. [142 additional co-authors including Speagle, J. S.], 2018, Publications of the Astronomical Society of Japan, Vol. 70, Iss. SP1, id. S4 The Hyper Suprime-Cam SSP Survey: Overview and Survey Design arxiv: 1704.05858
- Oguri, M. et al. [24 additional co-authors including Speagle, J. S.], 2018, Publications of the Astronomical Society of Japan, Vol. 70, Iss. SP1, id. S20
   An optically-selected cluster catalog at redshift 0.1<z<1.1 from Hyper Suprime-Cam Subaru Strategic Program S16A data</p>
   arxiv: 1701.00818
- 1. Masters, D. C. et al. [19 additional co-authors including **Speagle, J. S.**], 2015, The Astrophysical Journal, Vol. 813, Iss. 1, id. 53

Mapping the Galaxy Color-Redshift Relation: Optimal Photometric Redshift Calibration Strategies for Cosmology Surveys arxiv: 1509.03318

## Contributing Author (Non-Refereed)

- 4. Ntampaka, M.; Bonaca, A.; Bose, S.; Eisenstein, D. J.; Hadzhiyska, B.; Mason, C.; Nagai, D.; & **Speagle, J. S.**, 2022, Bulletin of the American Astronomical Society, Vol. 54, Iss. 1, id. 51
  - A Referee Primer for Early Career Astronomers
- 3. Tollerud, E. et al. [115 additional co-authors including **Speagle, J. S.**], 2019, Bulletin of the American Astronomical Society, Vol. 51, Iss. 7, id. 180 Sustaining Community-Driven Software for Astronomy in the 2020s
- Siemiginowska, A. et al. [51 additional co-authors including Speagle, J. S.],
   2019, Bulletin of the American Astronomical Society, Vol. 51, Iss. 3, id. 355
   The Next Decade of Astroinformatics and Astrostatistics
   arxiv: 1903.06796
- 1. Zasowski, G.; Finkbeiner, D. P.; Green, G. M.; Kollmeier, J. A.; Nataf, D. M.; Peek, J. E. G.; Schlafly, E. F.; Silva Aguirre, V.; **Speagle, J. S.**; Tchernyshyov, K.; Trujillo, J. D.; & Zucker, C., 2019, Bulletin of the American Astronomical Society, Vol. 51, Iss. 3, id. 314

High-Dimensional Dust Mapping

arxiv: 1903.05150