

Louis Evan Abramson

Education and Employment

- 2019–Present **Elected Official**, *Central Hollywood Neighborhood Council*, Los Angeles, CA.
Outreach Committee chair; Homelessness Committee chair
- 2018–21 Carnegie Fellow, *Carnegie Observatories*, Pasadena, CA.
- 2015–18 Postdoctoral Scholar, *UCLA*, Los Angeles, CA.
- 2015 PhD, Astrophysics, *The University of Chicago*, Chicago, IL.
- 2009 BA, Physics, magna cum laude, *Columbia University*, New York, NY.

Non-profit Work

- 2020–Present Founding Board, *Hollywood 4WRD*, Los Angeles.
Coalition to end homelessness in Hollywood
- 2020–Present Co-founder/Founding Board, *Hollywood Harvest*, Los Angeles.
2021 Nonprofit of the Year, CA Assembly District 50
- 2020–Present Founder, Hollywood Chapter, *SELAH Neighborhood Homeless Coalition*, Los Angeles.
- 2020–Present Co-chair, Data & Engagement Committee, *SELAH Neighborhood Homeless Coalition*, Los Angeles.

Awards

- 2021 Heroes of Hollywood Award, *Hollywood Chamber of Commerce*.
In recognition for remarkable volunteering and organizing with lasting philanthropic impact on the Hollywood community.
- 2021 Food Policy Council Commendation, *County of Los Angeles*.
In recognition of dedicated service combatting food insecurity in LA County.
- 2020 Certificate of Appreciation, *City of Los Angeles*.
In recognition of outstanding citizenship and accomplishments of great value to the City of LA.
- 2017 Chancellor's Award for Postdoctoral Research, *honorable mention*, *UCLA*.
- 2014 James W. Cronin Graduate Fellowship, *UChicago*, inaugural awardee.
- 2014 William Rainey Harper Dissertation Prize, *UChicago*.
- 2011–14 Carnegie-Brinson Fellowship, *UChicago/Carnegie Observatories*.
- 2010 Physical Science Division Teaching Prize, *UChicago*.
- 2009 McCormick Graduate Fellowship, *UChicago*.
- 2009 *Phi Beta Kappa*, *Columbia University*.

Media

- 2021 AAS Journal Author Series, *Louis Abramson on RNAAS 4, 236A (2020)*, 17 September; <https://www.youtube.com/watch?app=desktop&v=Y9BTOUDajQ8&feature=youtu.be>.

- 2021 Invisible People, *When LA Skipped Counting Homeless People, Communities Stepped In*, 13 September; <https://invisiblepeople.tv/when-la-skipped-counting-homeless-people-communities-stepped-in/amp/>.
- 2021 The Beverly Press, *Program expands to fight hunger in Hollywood*, 21 July; <https://beverlypress.com/2021/07/program-expands-to-fight-hunger-in-hollywood/>.
- 2021 Engineers and Scientists Acting Locally, *Astrophysicist Uses Analytical Skills to Make a Difference on Earth*, 13 June; <https://www.esal.us/blog/astrophysicist-uses-analytical-skills/>.
- 2021 The LA Times, *Despite appearances, 12% fewer homeless people were on Hollywood streets this year*, 13 April; <https://www.latimes.com/homeless-housing/story/2021-04-13/despite-appearances-15-fewer-homeless-people-were-on-hollywood-streets-this-year>.
- 2020 The Beverly Press, *Hollywood community takes care of seniors so they can stay 'Safer at Home'*, 15 April; <https://beverlypress.com/2020/04/hollywood-community-takes-care-of-seniors-so-they-can-stay-safer-at-home/>.
- 2020 The LA Times, *Column: In Hollywood and around L.A., COVID-19 is bringing out our inner heroes*, 11 April; <https://www.latimes.com/california/story/2020-04-11/column-in-hollywood-and-around-l-a-covid-19-is-bringing-out-our-inner-heroes>.
- 2020 The Arc Podcast: Dimension, *Southern California Institute for Architecture*, Los Angeles, 3 March; Listen at <https://podcasts.apple.com/us/podcast/dimensionality/id1486891892?i=1000467397428>.

Academic Committees/Appointments

- 2016–18 Diversity Committee, *UCLA Dept. of Physics & Astronomy*.
- 2016–18 Postdoc Representative, *UCLA Dept. of Physics & Astronomy*.
- 2015 Graduate Admissions Committee, *UChicago Dept. of Astronomy & Astrophysics*.

Peer Reviewer

- 2019 *Hubble Space Telescope Time Allocation Committee*, Panelist.
- 2016–Present *Monthly Notices of the Royal Astronomical Society*.
- 2015–Present *The Astrophysical Journal*.

Teaching and STEM Outreach

- 2016–18 Planetarium Lecturer, *UCLA*.
Gave public and private shows as part of ongoing UCLA planetarium series.
- 2013–15 Assistant Instructor, *KICP Space Explorers Yerkes Summer Institutes, UChicago*.
Designed, planned, and taught week-long science camps at Yerkes Observatory, WI.
- 2010–11 Head Instructor, *KICP Space Explorers, UChicago*.
College preparatory program for south-side Chicago high school students. Designed/taught/ran weekly science courses and bi-yearly science camps.
- 2010–11 Instructor, *NASA CAPSTONE program, UChicago*.
Helped develop a high school astronomy curriculum for use by Chicago Public Schools.

- 2010 Teaching Assistant, Nat. Sci. 102: Evolution of the Universe, *UChicago*.
Lab-based survey course in cosmology for undergraduate non-majors.
- 2010 Teaching Assistant, Phys. Sci. 120: Origin of the Universe and How We Know, *UChicago*.
Lab-based course for undergraduate non-majors.
- 2009 Teaching Assistant, Phys. Sci. 119: Stellar Astronomy and Astrophysics, *UChicago*.
Lab-based course for undergraduate non-majors.

Publications (44)

.....First author (9)

- 2020 *At Least One-in-Six Galaxies Is Always Dead*, with D.D. Kelson, *RNAAS*, 4, 236.
- 2020 *The Grism Lens-Amplified Survey from Space (GLASS). XIII. G800L optical spectra from the parallel fields*, with G.B. Brammer, K.B. Schmidt, T. Treu, et al., *MNRAS*, 493, 952.
- 2018 *The Grism Lens-Amplified Survey from Space (GLASS). XII. Spatially Resolved Galaxy Star Formation Histories and True Evolutionary Paths at $z > 1$* , with A.B. Newman, T. Treu, K.H. Huang, et al., *AJ*, 156, 1.
- 2018 *Must Galaxies Rapidly Get Denser before They Quench?*, with T. Morishita, *ApJ*, 858, 40.
- 2016 *Return to [Log-]Normalcy: Rethinking Quenching, the Star Formation Main Sequence, and Perhaps Much More*, with M.D. Gladders, A. Dressler, A. Oemler, Jr., et al., *ApJ*, 832, 7.
- 2015 *Matching the Evolution of the Stellar Mass Function Using Log-normal Star Formation Histories*, with M.D. Gladders, A. Dressler, A. Oemler, Jr., et al., *ApJL*, 801, L12.
- 2014 *The Circular Velocity Function of Group Galaxies*, with R.J. Williams, A.J. Benson, J.A. Kollmeier, et al., *ApJ*, 793, 49.
- 2014 *The Mass-Independence of Specific Star Formation Rates in Galactic Disks*, with D.D. Kelson, A. Dressler, B.M. Poggianti, et al., *ApJL*, 785, L36.
- 2013 *The IMACS Cluster Building Survey. V. Further Evidence for Starburst Recycling from Quantitative Galaxy Morphologies*, with A. Dressler, M.D. Gladders, A. Oemler, Jr., et al., *ApJ*, 777, 124.

.....Critical contributor (16)

- 2020 *Gravity and the nonlinear growth of structure in the Carnegie-Spitzer-IMACS redshift survey*, D.D. Kelson, L.E. Abramson, A. Benson, S.G. Patel, et al., *MNRAS*, 494, 2628.
- 2019 *Massive Dead Galaxies at $z \sim 2$ with HST Grism Spectroscopy. 1. Star Formation and Metallicity Enrichment Histories*, T. Morishita, L.E. Abramson, T. Treu, G. Brammer et al., *ApJ*, 877, 141.
- 2018 *Late Bloomer Galaxies: Growing Up in Cosmic Autumn*, A. Dressler, D.D. Kelson, & L.E. Abramson, *ApJ*, 869, 152.
- 2018 *Metal Deficiency in Two Massive Galaxies at $z \sim 2$* , T. Morishita, L.E. Abramson, T. Treu, X. Wang, et al., *ApJL*, 856, 4.
- 2017 *Characterizing Intra-Cluster Light in the Hubble Frontier Fields*, T. Morishita, L.E. Abramson, T. Treu, K.B. Schmidt, et al., *ApJ*, 846, 139.

- 2017 *The Star Formation Histories of Disk Galaxies: the Live, the Dead, and the Undead*, A. Oemler, Jr., L.E. Abramson, M.D. Gladders, A. Dressler, et al., *ApJ*, 844, 45.
- 2017 *Spectroscopic confirmation of an ultra-faint galaxy at the epoch of reionization*, A. Hoag, et al., *Nature Astronomy*, 1, 0091.
- 2017 *Log-Normal Star Formation Histories in Simulated and Observed Galaxies*, B. Diemer, M. Sparre, L.E. Abramson, & P. Torrey, *ApJ*, 839, 26.
- 2017 *The Grism Lens-Amplified Survey from Space (GLASS). IX. The Dual Origin of Low-Mass Cluster Galaxies as Revealed by New Structural Analyses*, T. Morishita, L.E. Abramson, T. Treu, B. Vulcani, et al., *ApJ*, 835, 254.
- 2017 *On the Progenitor of the Type IIb Supernova 2016gkg*, C.D. Kilpatrick, R.J. Foley, L.E. Abramson, Y.C. Pan, et al., *MNRAS*, 465, 4650.
- 2016 *Demonstrating Diversity in Star Formation Histories with the CSI Survey*, A. Dressler, D.D. Kelson, L.E. Abramson, M.D. Gladders, et al., *ApJ*, 833, 251.
- 2016 *On the Origin and Evolution of the Stellar Mass Function*, D.D. Kelson, A.J. Benson, & L.E. Abramson, arXiv:1610.06566; *ApJ* in review.
<http://adsabs.harvard.edu/abs/2016arXiv161006566K>
- 2016 *Progenitor Candidate for SN 2016gkg in NGC 613*, C.D. Kilpatrick, et al., *ATel* 9536.
- 2015 *The Secret Life of Galaxies*, A. Dressler & L.E. Abramson, *IAUS*, 311, 140.
- 2013 *The IMACS Cluster Building Survey: II. Spectral Evolution of Galaxies in the Epoch of Cluster Assembly*, A. Dressler, et al., *ApJ*, 770, 62.
- 2013 *SGAS 143845.1+145407: A Big, Cool Starburst at Redshift 0.816*, M.D. Gladders, et al., *ApJ*, 764, 177.
- Co-author (19)
- 2020 *Extremely Low Molecular Gas Content in the Vicinity of a Red Nugget Galaxy at $z=1.91$* , M. Takahiro, et al., *ApJ*, accepted.
- 2020 *High-resolution imaging follow-up of doubly imaged quasars*, A. Shajib, et al., arXiv:2011.01971; *MNRAS*, submitted.
<https://ui.adsabs.harvard.edu/abs/2020arXiv201101971S/abstract>
- 2019 *First Census of Sub-kiloparsec Resolution Metallicity Gradients in Star-forming Galaxies at Cosmic Noon from HST Slitless Spectroscopy*, X. Wang, et al., *ApJ*, 900, 183.
- 2019 *Discovery of Strongly Inverted Metallicity Gradients in Dwarf Galaxies at $z\sim 2$* , X. Wang, et al., *ApJ*, 882, 94.
- 2019 *Inferences on the Timeline of Reionization at $z\sim 8$ From the KMOS Lens-Amplified Spectroscopic Survey*, C. Mason, et al., *MNRAS*, 485, 3.
- 2018 *The STRong lensing Insights into the Dark Energy Survey (STRIDES) 2016 follow-up campaign. II. New quasar lenses from double component fitting*, T. Anguita, et al., *MNRAS*, 480, 5017.
- 2018 *The STRong lensing Insights into the Dark Energy Survey (STRIDES) 2016 follow-up campaign. I. Overview and classification of candidates selected by two techniques*, T. Treu, et al., *MNRAS*, tmp, 2202.
- 2018 *Testing the Breathing Mode in Intermediate Mass Galaxies and its Predicted Star Formation Rate–Size Anti-Correlation*, S. Patel, et al., *ApJL*, 866, 21.

- 2018 *Discovery of three strongly lensed quasars in the Sloan Digital Sky Survey*, P. Williams, et al., *MNRAS*, 477, 70.
- 2017 *Discovery and Follow-Up Observations of the Young Type 1a Supernova 2016coj*, W.K. Zheng, et al., *ApJ*, 841, 1.
- 2017 *The Grism Lens-Amplified Survey from Space (GLASS) X. Sub-kpc Resolution Gas-phase Metallicity Maps at Cosmic Noon Behind the Hubble Frontier Fields Cluster MACS1149.6+2223*, X. Wang, et al., *ApJ*, 837, 89.
- 2017 *The Grism Lens-Amplified Survey from Space (GLASS). VIII. The Influence of the Cluster Properties on H α Emitter Galaxies at 0.3<z<0.7*, B. Vulcani, et al., *ApJ*, 837, 126.
- 2016 *The Grism Lens-Amplified Survey from Space (GLASS). VII. The Diversity of the Distribution of Star Formation in Cluster and Field Galaxies at 0.3<z<0.7*, B. Vulcani, et al., *ApJ*, 833, 2.
- 2015 *The Grism Lens-Amplified Survey from Space (GLASS). V. Extent and Spatial Distribution of Star Formation in z \sim 0.5 Cluster Galaxies*, B. Vulcani, et al., *ApJ*, 814, 161.
- 2013 *The IMACS Cluster Building Survey: III. The Star Formation Histories of Field Galaxies*, A. Oemler, Jr., et al., *ApJ*, 770, 63.
- 2013 *The IMACS Cluster Building Survey: IV. The Log-normal Star Formation History of Galaxies*, M.D. Gladders, et al., *ApJ*, 770, 64.
- 2013 *The galaxy stellar mass function and its evolution with time show no dependence on global environment*, B. Vulcani, et al., *A&A*, 550A, 58.
- 2013 *SDSSJ2222+2745: A Gravitationally Lensed Sextuple Quasar with Maximum Image Separation of 15.1'' Discovered in the Sloan Giant Arcs Survey*, H. Dahle, et al., *ApJ*, 773, 146.
- 2012 *Weak-Lensing Mass Measurements of Five Galaxy Clusters in the South Pole Telescope Survey Using Magellan/Megacam*, F.W. High, et al., *ApJ*, 758, 68.

Selected Talks and Events

Slides at <http://leabramson.wordpress.com/publications-talks> or upon request

- 2021 From data to meaning: the challenge of inferring the past from astronomical data, *Carnegie Observatories – Farewell Colloquium*, Pasadena, 24 August.
<https://www.youtube.com/watch?v=gaQ3V9ZRZHs>
- 2021 Homelessness Summit, *Hollywood Chamber of Commerce – invited panelist*, Hollywood (remote), 29 January.
<https://hollywoodchamber.net/2021-homelessness-summit/>
- 2020 How the Universe Got Its Structure, *All Space Considered – public talk*, Los Angeles (remote), 5 June.
<https://www.youtube.com/watch?v=OnFo4zzz2vw&feature=youtu.be>
- 2019 From apples to orange juice: the challenge of inferring galaxy biographies from single epoch snapshots, *The Life And Death Of Star-Forming Galaxies – invited review*, Perth, 20 March.
- 2017 Towards a New Empirical Vision of Galaxy Evolution, *Carnegie Observatories – Friday Seminar*, Pasadena, 17 November.
 video at: <https://www.youtube.com/watch?v=aH-HamvU2-U>

- 2017 What is “galaxy evolution” and what does it mean to understand it?, *UCLA – astronomy colloquium*, Los Angeles, 18 October.
- 2017 What do we want from the SFMS and (how) can it give us those things?, *10 Years of the Star Formation Main Sequence – Lorentz Center Workshop*, Leiden, 4 September.
- 2016 To Quench or Not To Quench? How What We Say Affects What We Think about Galaxy Evolution, *GalPath2016 – invited talk*, Catalina Island, 1 August.
- 2014 Insights from the ICBS: What Cluster Surveys Can Teach Us about Star Formation, *The Life and Times of Galaxies: A Celebration of Alan Dressler’s Career*, Zion National Park, 10 September.
- 2012 PHENOMenology: Stepping Through the Scientific Method, *National Science Teachers Association National Convention*, Indianapolis, 30 March.

Research Supervision

- 2015–17 Takahiro Morishita, PhD student, UCLA.
- 2014 Ethan Jahn, summer REU student, UChicago.