Curriculum Vitae

Erica Nelson

Academic History

University of Colorado, Boulder – Boulder, CO
Assistant Professor (2020 -)

Harvard-Smithsonian Center for Astrophysics – Cambridge, MA
NASA Hubble Fellow (2018 - 2020)
Institute for Theory and Computation Fellow (2018 - 2020)

Max-Planck-Institut für Extraterrestrische Physik – Munich, Germany
Postdoctoral Fellow (2016 - 2017)

Yale University – New Haven, CT
PhD Astronomy (2016)
Advisor: Pieter van Dokkum
Thesis: The Spatial Distribution of Star Formation in Galaxies: Observing the Emergence of Galactic Structure

Pomona College – Claremont, CA
B.A. Physics & Astronomy (2008)
Advisors: Barry Madore & Philip Choi

Publications

Publications in refereed journals: 94, first author: 8, total citations: 9187, H-index: 47 [ads search]

1. Nelson, Erica June, et al. JWST reveals a population of ultra-red, flattened disk galaxies at 2 < z < 6 previously missed by HST, arXiv:2207.14733 (2022)
2. Nelson, Erica June, et al., Spatially Resolved Star Formation and Inside-out Quenching in the TNG50 Simulation and 3D-HST Observations, MNRAS, 508, 219 (2021)
3. Nelson, Erica June, et al., Millimeter Mapping at z~1: Dust-Obscured Bulge Building and Disk Growth, ApJ, 870, 130 (2019)
4. Nelson, Erica June, et al., Where Stars Form: Inside-Out Growth and Coherent Star Formation from HST Hα Maps of 2676 Galaxies Across the Main Sequence at z ~ 1, ApJ, 828, 27 (2016)
5. Nelson, Erica June, et al., Spatially-Resolved Dust Maps from Balmer Decrements in Galaxies at z ~ 1.4, ApJL, 817, 9 (2016)
6. Nelson, Erica June, et al., A Massive Galaxy in its Core Formation Phase Three Billion Years After the Big Bang, Nature, 513, 394 (2014)
7. Nelson, Erica June, et al., The Radial Distribution of Star Formation in Galaxies at z ~ 1 from the 3D-HST Survey, ApJL, 763, 16 (2013)
8. Nelson, Erica June, et al., Spatially Resolved Hα Maps and Sizes of 57 Strongly Star-forming Galaxies at z ~ 1 from 3D-HST: Evidence for Rapid Inside-out Assembly of Disk Galaxies, ApJL, 747, 28 (2012)
9. **Remaining publications listed at end of CV**

Select Research Programs

- Hubble Space Tielescope Archival, Pirate: Walking the Plank to Spatially Resolved Stellar Populations in CANDELS **Principal Investigator**
- JWST Advanced Deep Extragalactic Survey (JADES) NIRCam-NIRSpec GTO program, 790 hours, Size and Morphology team lead
- JWST, FRESCO: The First Reionization Epoch Spectroscopic Complete Survey, 53 hours, Co-I
- JWST, UNCOVER: Ultra-deep NIRCam and NIRSpec Observations Before the Epoch of Reionization, 68 hours, Co-I
- JWST, The Stellar and Gas Content of Galaxies at Cosmic Noon, 46 hours, Co-I
- JWST, UDF Medim Band Survey: Using H-alpha Emission to Reconstruct Ly-alpha escape during the Epoch of Reionization, 20 hours, Co-I
- JWST Archival, Preventing the Slit-Loss Catastrophe Using Flexible, Spatially Resolved Galaxy Models, Co-I
- Hubble Space Telescope near-infrared imaging and slitless spectroscopy, 3D-DASH: A Wide Field WFC3/IR Survey of COSMOS, 259 orbits, Co-I
- Magellan FIRE, The Core Formation Phase of Massive Galaxies at z=3-5, 8 nights, **Principal Investigator**
- ALMA (Atacama Large Millimeter Array), CO line widths of massive, compact galaxies with anomalously small Halpha line widths at z~2, 3 hours, **Co-PI**
- Northern Extended Millimeter Array, Dust-Obscured Bulge Growth in Milky Way and Andromeda Progenitors, 44 hours, **Principal Investigator**
- MMT Binospec, Unraveling Reionization with Resolved Lyman Alpha, 3 nights, Co-I
- MMT MMIRS, Consensus on low-mass galaxies: how do low-mass galaxies grow?, 2 nights, Co-I
- Hubble Space Telescope optical and near-infrared imaging and slitless spectroscopy, 3D-HST: A Spectroscopic Galaxy Evolution Treasury, 248 orbits, team member
- Very Large Telescope K-band Multi-Object Spectrograph, The KMOS3D survey of spatially-resolved kinematics, star formation and physical properties at $0.7 < z < 2.7$: witnessing the mass growth and life cycle of galaxies, 75 nights, Co-I
- ALMA, Structural Evolution and Quenching in Massive Galaxies at z~2, 25 hours, Co-I
- Very Large Telescope SINFONI+AO, Resolving ionized gas outflows: geometry, mass loading and ejection rates of the ubiquitous nuclear winds in typical massive z~2 star-forming galaxies, 5 nights, Co-I
- Hubble Space Telescope ultraviolet imaging, Hubble Deep UV Legacy Survey, 125 orbits, Co-I
- Hubble Space Telescope, COSMOS-DASH: A Wide-Field WFC3 Imaging Survey in the COSMOS Field, 57 orbits, Co-I
- Northern Extended Millimeter Array, CO Rotation Curves in the Outer Disks of z~1-2 Star-Forming Galaxies, 106 hours [multi-year campaign], Co-I
- Keck Observatory near-infrared spectroscopy (MOSFIRE, OSIRIS, NIRSPEC), 15 nights, Co-I

Research Talks

- **Conference Presentations**
  - American Physical Society, Minneapolis, MN (Forthcoming April 2023) [Invited Review]
  - European Astronomical Society, Virtual, 2021
  - AAS ISM BIG, Madison, WI (2020) [Invited]
  - Aspen Quenching, Aspen, CO (2020)
  - Harvard-Heidelberg Star Formation, Cambridge, MA (2019) [Invited Review]

    - The Life and Death of Star-Forming Galaxies, Perth, Australia (2019) [Invited Review]
    - Hubble Fellows Symposium, Baltimore, MD (2019)
    - Gas Fuelling of Galaxy Structures across Cosmic Time, Barossa Valley, Australia (2018) [Invited Review]
    - IllustrisTNG Science Workshop, Garching, Germany (2018)
    - The Galaxy Ecosystem: Flow of Baryons Through Galaxies, Garching, Germany (2017)
    - Advances in Galaxy Evolution, Ringberg, Germany (2017)
    - In Situ View of Galaxy Formation, Ringberg, Germany (2016)
    - What Shapes Galaxies?, Space Telescope Science Institute, Baltimore, MD (2016)
    - Star-Forming Galaxies at $0.3 < z < 1$, American Astronomical Society Meeting, Kissimmee (2016)
    - Census, Evolution, Physics; New Haven, CT (2015)
    - Galaxies at High Redshift and Their Evolution over Cosmic Time, International Astronomical Union Meeting, Honolulu, HI (2015)
    - The Many Pathways to Galaxy Growth, Prato, Italy (2015)
    - Science with the 3D-HST Survey, American Astronomical Society Meeting, Seattle (2015)
    - AREPOfest-2, Cambridge, MA (2014)
    - The Origin of the Hubble Sequence, Paris, France (2013)
    - Watching Galaxies Grow Up, Ringberg, Germany (2011)
    - ISM in High Redshift Galaxies, Santiago, Chile (2011)
- **Colloquia & Seminars**
    - University of California, Los Angeles (April 2023)
    - University of Toronto (reschduled to April 2023)
    - Flatiron Center for Computational Astrophysics (rescheduled spring 2023)
    - Center for Astropysics | Harvard-Smithsonian (March 2023)
    - University of California, Santa Cruz (2022)
    - Northwestern University (2020)
    - UMass, Amherst (2019)
    - University of Colorado, Boulder (2019)
    - University of Connecticut (2018)
    - Williams College (2017)
    - Bowdoin College (2017)
    - Max-Planck-Institut für Extraterrestrische Physik (2016)
    - Caltech (2015)
    - Carnegie Observatories (2015)
    - University of California Santa Cruz (2015)
    - University of California Berkeley (2012, 15)
    - MIT Kavli Insititute (2015)
    - Mitchell Institute at Texas A&M (2015)

Teaching, Service, and Leadership

- CU Boulder teaching: Lead instructor for
    - Accelerated Introduction to Astronomy 2 (ASTR 1040): introductory astrophysics for science majors, 50-70 students (2021-2022)
    - Galaxies (ASTR 5720): Graduate elective, 11 students (2020)
- Thirty Meter Telescope Wide Field Optical Spectrometer Science Team (2019-)
- Hubble Space Telescope External Reviewer (2021)
- NASA FINESST Reviewer (2021)
- Swiss National Science Foundation reviewer (2021)
- Hubble Space Telescope Time Allocation Committee (2020)

- CU Boulder APS admissions committee (2020-2022)
- Harvard High-redshift Galaxy Evolution Group co-leader (2018-2021)
- Referee for the Astrophysical Journal and Monthly Notices of the Royal Astronomical Society (Always)
- Institute for Theory and Computation (ITC) Luncheon Organizer (2018-2019)
- ITC Battlestar Galactica Organizer (2019)
- National Science Foundation Astronomy and Astrophysics Grant Program Panel (2019)
- Yale Telescope Time Allocation Committee (2013)
- Teaching Fellow, Yale University (2009-2012)
  Designed exams and problem sets, developed and taught weekly discussion sections for courses: Introduction to Cosmology (ASTR 170), Life in the Universe (ASTR 130), Planets and Stars (ASTR 110), Introduction to Astronomical Observing (ASTR 155)
- Fundamentals of Science Teaching course (2009)
- Associate Director of Presidential Campaign Office, Detroit (2008)

Research Mentorship

- Justus Gibson, A Newly Resolved Window into Galaxy Growth and Quenching with Pirate, CU Boulder; PhD Thesis (2020 -)
- Chloe Benton, Big Red Bulges in JWST, CU Boulder graduate student (2022 -)
- Daniel Mendoza, The Star Forming Main Sequence at z=0-15 in Illustris-TNG, CU Boulder graduate student (2022 -)
- Leah Zuckerman, Testing Pirate with Simba/Powderday, CU Boulder graduate student (2022 -)
- Abby Hartley, The First Quiescent Galaxies in TNG300, CU Boulder undergraduate (2022 -)
- James Baldwin, A New Size Measuremnt for the Most Distant Galaxy, CU Boulder undergraduate (2021-2022)
- Min-Jung Park, Star Formation Quenching and Morphology in TNG50, Harvard Graduate Student (2020-2022)
- Adrianna Perez, The Evolution of the Size-Mass Relation of Galaxies, Harvard (2018-2019)
- Lamiya Mowla, Anomalously Narrow Linewidths of Compact Massive Star-Forming Galaxies at z~2.3 (2018-2019)
- Christopher Bradshaw, Constraining the Evolution of Low Mass Galaxies, Yale Honors Thesis (2014-2015)

Observing Experience

Setting strategy, designing observations, conducting observations, data reduction and analysis

- Magellan FIRE, 3 nights [Principal Investigator]
- NOEMA dust continuum mapping, 44 hours [Principal Investigator]
- VLT/KMOS multi-object Intagral Field Unit (IFU) NIR spectroscopy, 5 nights
- VLT/SINFONI Adaptive Optics IFU NIR spectroscopy 5 nights
- Keck/MOSFIRE multi-slit near-infrared spectroscopy 3 nights
- Keck/OSIRIS IFU near-infrared spectroscopy 2 nights
- Keck/NIRSPEC single-slit near-infrared spectroscopy 10 mights
- WIYN/WHIRC near-infrared imaging 10 nights

Awards and Honors

- NASA Hubble Fellowship (2018-2021)
- National Science Foundation Graduate Research Fellowship (2012-2015)
- Yale University Stephen B. Butler Fellowship (2010)

- The Frank Parkhurst Brackett, Jr. and Davida Wark Brackett Prize for excellence in astronomy (2007, 2008)
- Pomona Scholar (2006, 2007)
- Carly Vogel Fisher Scholarship for Leadership (2004-2008)

Full Publication List

1. Nelson, Erica June, et al. JWST reveals a population of ultra-red, flattened disk galaxies at 2 < z < 6 previously missed by HST, arXiv:2207.14733 (2022)
2. Nelson, Erica June, et al., Spatially Resolved Star Formation and Inside-out Quenching in the TNG50 Simulation and 3D-HST Observations, MNRAS, 508, 219, 2021
3. Nelson, Erica June, et al., Millimeter Mapping at z~1: Dust-Obscured Bulge Building and Disk Growth, ApJ, 870, 130 (2019)
4. Nelson, Erica June, et al., Where Stars Form: Inside-Out Growth and Coherent Star Formation from HST Hα Maps of 2676 Galaxies Across the Main Sequence at z ~ 1, ApJ, 828, 27 (2016)
5. Nelson, Erica June, et al., Spatially-Resolved Dust Maps from Balmer Decrements in Galaxies at z ~ 1.4, ApJL, 817, 9 (2016)
6. Nelson, Erica June, et al., A Massive Galaxy in its Core Formation Phase Three Billion Years After the Big Bang, Nature, 513, 394 (2014)
7. Nelson, Erica June, et al., The Radial Distribution of Star Formation in Galaxies at z ~ 1 from the 3D-HST Survey, ApJL, 763, 16 (2013)
8. Nelson, Erica June, et al., Spatially Resolved Hα Maps and Sizes of 57 Strongly Star-forming Galaxies at z ~ 1 from 3D-HST: Evidence for Rapid Inside-out Assembly of Disk Galaxies, ApJL, 747, 28 (2012)
9. Labbe, Ivo; van Dokkum, Pieter; Nelson, Erica, A very early onset of massive galaxy formation, (Nature, under review) arXiv:220712446 (2022)
10. Suess, Katherine A., Bezanson, Rachel, Nelson, Erica J., et al., Rest-frame Near-infrared Sizes of Galaxies at Cosmic Noon: Objects in JWST's Mirror Are Smaller than They Appeared, ApJL, 937, 33 (2022)
11. Miller, Tim B., Whitaker, Katherine E., Nelson, Erica J., et al. Early JWST imaging reveals strong optical and NIR color gradients in galaxies at z~2 driven mostly by dust, arXiv: 2209.12954 (2022)
12. Park, Minjung, Tacchella, Sandro, Nelson, Erica et al., On the formation of massive quiescent galaxies with diverse morphologies in the TNG50 simulation, MNRAS, 515, 213 (2022)
13. Naidu, Rohan P.; Oesch, Pascal A.; van Dokkum, Pieter; Nelson, Erica, et al. Two Remarkably Luminous Galaxy Candidates at z=10-12 Revealed by JWST, arXiv:2207.09434 (2022)
14. Barrufet, L. et al. including Nelson, Erica, Unveiling the Nature of Infrared Bright, Optically Dark Galaxies with Early JWST Data, arXiv:2207.14733 (2022)
15. Robertson, Brant et al., including Nelson, Erica June, Morpheus Reveals Distant Disk Galaxy Morphologies with JWST: The First AI/ML Analysis of JWST Images, (accepted to ApJ) arXiv:2208.11456 (2022)
16. Mowla, Lamiya A. et al. including Nelson, Erica, 3D-DASH: The Widest Near-infrared Hubble Space Telescope Survey, ApJ, 933, 129 (2022)
17. Park, Minjung, et al. including Nelson, Erica, Rapid Quenching of Galaxies at Cosmic Noon, arXiv: 2210.03747 (2022)
18. Leja, Joel et al. including Nelson, Erica, A New Census of the 0.2 < z < 3.0 Universe. II. The Star-forming Sequence, ApJ, 936, 165 (2022)
19. Cutler, Sam et al. including Nelson, Erica, Diagnosing DASH: A Catalog of Structural Properties for the COSMOS-DASH Survey, ApJ, 925, 34 (2022)

20. Matharu, Jasleen, et al. including Nelson, Erica, CLEAR: The Evolution of Spatially Resolved Star Formation in Galaxies between 0.5 ≲ z ≲ 1.7 Using Hα Emission Line Maps, ApJ, 937, 16 (2022)
21. Tacchella, Sandro et al. including Nelson, Erica, JWST NIRCam+NIRSpec: Interstellar medium and stellar populations of young galaxies with rising star formation and evolving gas reservoirs, (submitted) arXiv:2208.03281 (2022)
22. Akhshik, Mohammad, et al. including Nelson, Erica June, REQUIEM-2D: A diversity of formation pathways in a sample of spatially-resolved massive quiescent galaxies at z~2, arXiv:2203.04979 (2022)
23. Whitaker, Katherine E. et al. including Nelson, Erica, Quenching of star formation from a lack of inflowing gas to galaxies, Nature, 597, 485 (2021)
24. Bouwens, Rychard J., et al. including Nelson, Erica June, New Determinations of the UV Luminosity Functions from z~9-2 Show a Remarakable Consistency with Halo Growth and a Constant Star Formation Efficiency, AJ, 162, 47 (2021)
25. Belli, S. et al. including Nelson, Erica June, The Diverse Molecular Gas Content of Massive Galaxies Undergoing quenching at z~1, ApJ, 909, 11 (2021)
26. Matharu, Jasleen et al. including Nelson, Erica, HST/WFC3 Grism Observations of z~1 Clusters: Evidence for Rapid Outside-in Environmental Quenching from Spatially Resolved Hα Maps, ApJ, 923, 222 (2021)
27. Whitaker, Katherine E. et al. including Nelson, Erica, High Molecular-gas to Dust Mass Ratios Predicted in Most Quiescent Galaxies, ApJL, 922, 30 (2021)
28. Rybak, M. et al. including Nelson, Erica June, Ultra-faint [CII] emission in a redshift-2 gravitationally-lensed metal-poor dwarf galaxy, arXiv:2101.00841 (2021)
29. Akhshik, Mohammad, et al. including Nelson, Erica June, Recent Star Formation in a Massive Slowly Quenched Lensed Quiescent Galaxy at z = 1.88, ApJL, 907, 8 (2021)
30. Tadaki, Ken-ichi, et al. including Nelson, Erica June, Structural Evolution in Massive Galaxies at z~2, ApJ, 901, 74 (2020)
31. Akhshik, Mohammad, et al. including Nelson, Erica June, REQUIEM-2D Methodology: Spatially Resolved Stellar Populations of Massive Lensed Quiescent Galaxies from Hubble Space Telescope2D Grism Spectropscopy ApJ, 900, 184 (2020)
32. Mendel, Trevor, et al. including Nelson, Erica June, The Kinematics of Massive Quiescent galaxies at 1.4 < z < 2.1: Dark Matter Fractions, IMF Variation, and the Relation to Local Early-type Galaxies, ApJ, 899, 87 (2020)
33. Matharu, Jasleen, et al. including Nelson, Erica June HST/WFC3 Grism Observations of z~1 Clusters: Evidence for the Evolution in the Mass-Size relation of Quiescent Galaxies from Post-Starburst Galaxies, MNRAS, 493, 6011 (2020)
34. Wilman, David, et al. including Nelson, Erica June, The Regulation of Galaxy Growth along the Size-Mass Relation by Star Formation, as Traced by Halpha in KMOS^3D Galaxies at 0.7 < z < 2.7, ApJ , 892, 1 (2020)
35. Mowla, Lamiya, Nelson, Erica, et al. Anomalously Narrow Line WIdths of Compact Massive Star-forming Galaxies at z~2.3: A Possible Inclination Bias in the Size-Mass Plane, ApJL, 886, 28 (2019)
36. Wisnioski, Emily, et al. including Nelson, Erica June The KMOS^3D Survey: Data Release and Final Survey Paper, ApJ, 886, 124 (2019)
37. Mowla, Lamiya, et al, including Nelson, Erica June, COSMOS-DASH: The Evolution of the Galaxy Size-Mass Relation Since z~3 from new Wide Field WFC3 Imaging Combined with CANDELS/3DHST, ApJ, 880, 57 (2019)
38. Übler, Hannah, et al. including Nelson, Erica June, The Evolution and Origin of Ionized Gas Velocity Dispersion from z~2.6 to z~0.6 with KMOS^3D, ApJ, 880,48 (2019)
39. Leja, Joel et al. including Nelson, Erica June, An Older, More Quiescent Universe from Panchromatic SED Fitting of the 3D-HST Survey, ApJ, 877, 140 (2019)
40. Förster Schreiber, N. M., et al. including Nelson, Erica June, The KMOS^3D Survey: Demographics and Properties of Galactic Outflows at z = 0.6 - 2.7, ApJ, 875, 21 (2019)

41. Matharu, Jasleen, et al. including Nelson, Erica June, HST/WFC3 Grism Observations of z~1 Clusters: The Cluster vs. Field Stellar Mass-Size Relation and Evidence for Size Growth of Quiescent Galaxies from Minor Mergers, MNRAS, 484, 595 (2019)
42. Davies, Rebecca L., et al., including Nelson, Erica June, Kiloparsec Scale Properties of Star-Formation Driven Outflows at z~2.3 in the SINS/zC-SINF AO Survey, ApJ, 873, 122 (2019)
43. Oesch, P. A., et al. including Nelson, Erica June, HDUV: The Hubble Deep UV Legacy Survey, ApJS, 237, 12 (2018)
44. Wisnioski, Emily, et al. including Nelson, Erica June, The KMOS^3D Survey: Rotating Compact Star Forming Galaxies and the Decomposition of Integrate Line Widths, ApJ, 855, 97 (2018)
45. Reddy, Naveen, et al. including Nelson, Erica June, The HDUV Survey: A Revised Assessment of the Relationship between UV Slope and Dust Attenuation for High-Redshift Galaxies, ApJ, 853, 56 (2018)
46. Orr, Matthew E., Hayward, Christopher C., Nelson, Erica June et al., Stacked Star Formation Rate Profiles of Bursty Galaxies Exhibit 'Coherent' Star Formation, arXiv:1709.10099 (2017)
47. Übler, Hannah, et al. including Nelson, Erica June, The Evolution of the Tully-Fisher Relation Between z~2.3 and z~0.9 with KMOS^3D, ApJ, 842, 121 (2017)
48. Popping, Gergö, Decarli, Roberto, Man, Allison W. S., Nelson, Erica June, et al., ALMA Reveals Starburst-like Interstellar Medium Coniditions in a Compact Star-Forming Galaxy at z~2 using [CI] and CO, A&A, 602, 11 (2017)
49. Belli, Sirio, et al. including Nelson, Erica June, KMOS^3D Reveals Low-level Star Formation Activity in Massive Quiescent Galaxies at $0.7 < z < 2.7$, ApJL, 841, 6 (2017)
50. Tadaki, Ken-ichi, Kodama, Tadayuki, Nelson, Erica June, et al., Rotating Starburst Cores in Massive Galaxies at z=2.5, ApJL, 841, 25 (2017)
51. Genzel, Reinhard et al. including Nelson, Erica June, Strongly Baryon-dominated Disk Galaxies at the Peak of Galaxy Formation Ten Billion Years Ago, Nature, 543, 397 (2017)
52. Lang, Philipp, et al. including Nelson, Erica June, Falling Outer Rotation Curves of Star-forming Galaxies at $0.6 < z < 2.6$ Probed with KMOS3D and SINS/zC-SINF, ApJ, 840, 92 (2017)
53. Naidu, Rohan et al. including Nelson, Erica June, The HDUV Survey: Six Lyman Continuum Emitter Candidates at z~2 Revealed by HST Imaging, ApJ, 847,12 (2017)
54. Fossati, Matteo et al. including Nelson, Erica June, Galaxy Environment in the 3D-HST fields. Witnessing the Onset of Satellite Quenching at z~1-2, ApJ, 835, 153 (2017)
55. Momcheva, Ivelina, et al. including Nelson, Erica June, A New Method for Wide-Field Near-IR Imaging with the Hubble Space Telescope, PASP, 129, 5004 (2017)
56. Whitaker, Katherine, et al. including Nelson, Erica June, Predicting Quiescence: The Dependence of Specific Star Formation Rate on Galaxy Size and Central Density at $0.5 < z < 2.5$, ApJ, 838, 19 (2017)
57. Dickey, Claire, et al. including Nelson, Erica June, The Relation Between [OIII]/Hβ and Specific Star Formation Rate in Galaxies at $z \sim 2$, ApJL, 828, 11 (2016)
58. Momcheva, Ivelina G., Brammer, Gabriel B., van Dokkum, Pieter, Skelton, Rosalind E., Whitaker, Katherine E., Nelson, Erica June, et al. The 3D-HST Survey: Hubble Space Telescope WFC3/G141 grism spectra, redshifts, and emission line measurements for ~ 100, 000 galaxies ApJS, 225, 27 (2016)
59. Wuyts, Eva, et al. including Nelson, Erica June, The Evolution of Metallicity and Metallicity Gradients from z=2.7-0.6 with KMOS3D ApJ, 827, 74 (2016)
60. Burkert, A., et al. including Nelson, Erica June, The Angular Momentum Distribution and Baryon Content of Star-Forming Galaxies at $z \sim 1 - 3$, ApJ, 826, 214 (2016)
61. Bezanson, Rachel, et al. including Nelson, Erica June, Leveraging 3D-HST Grism Redshifts to Quantify Photometric Redshift Performance, ApJ, 822, 30 (2016)
62. Fumagalli, Mattia, et al. including Nelson, Erica June, Ages of Massive Galaxies at $0.5 < z < 2.0$ from 3D-HST Rest-Frame Optical Spectroscopy, ApJ, 822, 1 (2016)
63. Wuyts, Stijn, et al. including Nelson, Erica June, KMOS3D: Dynamical Constraints on the Mass Budget in Early Star-Forming Disks, ApJ, 831, 149 (2016)

64. Lange, Johannes, van Dokkum, Pieter, Momcheva, Ivelina, Nelson, Erica June et al. Evidence for Non-stellar Rest-frame Near-IR Emission Associated with Increased Star Formation in Galaxies at z ~ 1, submitted to ApJL (2015)
65. van Dokkum, Pieter, Nelson, Erica June, et al., Forming Compact Massive Galaxies, ApJ, 813, 23 (2015)
66. Whitaker, Katherine E., et al. including Nelson, Erica June, Galaxy Structure as a Driver of the Star Formation Sequence Slope and Scatter, ApJL, 811, 12 (2015)
67. Wellons, Sarah, et al. including Nelson, Erica June, The formation of massive, compact galaxies at z = 2 in the Illustris simulation, MNRAS, 449, 361 (2015)
68. Mendel, Trevor, et al. including Nelson, Erica June, First Results from the VIRIAL Survey: The Stellar Content of UVJ-selected Quiescent Galaxies at 1.5 < z < 2 from KMOS, ApJL, 804, 4 (2015)
69. Wisnioski, Emily, et al. including Nelson, Erica June, The KMOS3D Survey: Design, First Results, and the Evolution of Galaxy Kinematics from 0.7 ≤ z ≤ 2.7, ApJ, 799, 209 (2015)
70. Fumagalli, Mattia, et al. including Nelson, Erica June, How Dead are Dead Galaxies? Mid-infrared Fluxes of Quiescent Galaxies at Redshift 0.3 < z < 2.5: Implications for Star Formation Rates and Dust Heating, ApJ, 796, 35 (2014)
71. Genzel, Reinhard, et al. including Nelson, Erica June, Evidence for Wide-Spread AGN Driven Outflows in the Most Massive z 1-2 Star Forming Galaxies, ApJ, 796, 7 (2014)
72. Whitaker, Katherine E., et al., including Nelson, Erica June,Constraining the Low-Mass Slope of the Star Formation Sequence at 0.5 < z < 2.5, ApJ, 795, 104 (2014)
73. van Dokkum, Pieter G., Bezanson, Rachel, van der Wel, Arjen, Nelson, Erica June, et al., Dense Cores in Galaxies Out to z = 2.5 in SDSS, UltraVISTA, and the Five 3D-HST/CANDELS Fields, ApJ, 791, 45 (2014)
74. Maseda, Michael V. et al. including Nelson, Erica June, The Nature of Extreme Emission Line Galaxies at z = 1-2: Kinematics and Metallicities from Near-infrared Spectroscopy, ApJ, 791, 17 (2014)
75. Wuyts, Eva, et al. including Nelson, Erica June, A Consistent Study of Metallicity Evolution at 0.8 < z < 2.6, ApJL, 789, 40 (2014)
76. Tal, Tomer, et al., including Nelson, Erica June, Observations of Environmental Quenching in Groups in the 11 GYR since z = 2.5: Different Quenching for Central and Satellite Galaxies, ApJ, 789,164 (2014)
77. Price, Sedona H., et al. including Nelson, Erica June, Direct Measurement of Dust Attenuation in z ~ 1.5 Star-Forming Galaxies from 3D-HST: Implications for Dust Geometry and Star Formation Rates, ApJ, 788, 86 (2014)
78. van der Wel, et al. including Nelson, Erica June, 3D-HST+CANDELS: The Evolution of the Galaxy Size-Mass Distribution since z = 3, ApJ, 788, 28 (2014)
79. Lang, Philipp, et al. including Nelson, Erica June, Bulge Growth and Quenching since z = 2.5 in CANDELS/3D-HST, ApJ, 788, 11 (2014)
80. Skelton, Rosalind E., et al. including Nelson, Erica June, 3D-HST WFC3-selected Photometric Catalogs in the Five CANDELS/3D-HST Fields: Photometry, Photometric Redshifts and Stellar Masses, ApJS, 2014, 24 (2014)
81. Wuyts, Stijn, Föster Schreiber, Natascha, Nelson, Erica June, et al., A CANDELS - 3D-HST Synergy: Resolved Star Formation Patterns at 0.7 < z < 1.5, ApJ, 779, 135 (2013)
82. Leja, Joel, et al. including Nelson, Erica June, Exploring the Chemical Link between Local Ellipticals and Their High-redshift Progenitors, ApJL, 778, 24 (2013)
83. Patel, Shannon G., et al. including Nelson, Erica June, The Structural Evolution of Milky Way-like Star Forming Galaxies since z ~ 1.3, ApJ, 778, 115 (2013)
84. Maseda, Michael V. et al. including Nelson, Erica June, Confirmation of Small Dynamical and Stellar Masses for Extreme Emission Line Galxies at z ~ 2, ApJL, 778, 22 (2013)
85. van Dokkum, Pieter G., Leja, Joel, Nelson, Erica June, et al.The Assembly of Milky Way-like Galaxies since z ~ 2.5, ApJL, 771, 35 (2013)
86. Schmidt, Kasper B., including Nelson, Erica June, The Spatial Extent and Distribution of Star Formation in 3D-HST Mergers at z ~ 1.5, MNRAS, 432, 285 (2013)

87. Whitaker, Katherine E. et al., including Nelson, Erica June, Quiescent Galaxies in the 3D-HST Survey: Spectroscopic Confirmation of a Large Number of Galaxies with Relatively Old Stellar Populations at z~2, ApJ, 770, 37 (2013)
88. Lundgren, Britt F. et al., including Nelson, Erica June, Large-Scale Star Formation-Driven Outflows at $1 < z < 2$ in the 3D-HST Survey, ApJ, 760, 49 (2012)
89. Brammer, Gabriel B., et al. including Nelson, Erica June, 3D-HST Grism Spectroscopy of a Gravitationally Lensed, Low-metallicity Starburst Galaxy at $z = 1.847$, ApJ, 758, 17 (2012)
90. Fumagalli, Mattia, et al. including Nelson, Erica June, Hα Equivalent Widths from the 3D-HST Survey: Evolution with Redshift and Dependence on Stellar Mass, ApJ, 757, 22 (2012)
91. Brammer, Gabriel B., et al., including Nelson, Erica June, 3D-HST: A Wide-field Grism Spectroscopic Survey with the Hubble Space Telescope, ApJS, 200, 13 (2012)
92. van Dokkum, Pieter G., Brammer, Gabriel, Fumagalli, Mattia, Nelson, Erica June, First Results from the 3D-HST Survey: The Striking Diversity of Massive Galaxies at $z > 1$, ApJ, 743, 15 (2011)
93. Whitaker, Katherine E., et al., including Nelson, Erica June,The NEWFIRM Medium-band Survey: Photometric Catalogs, Redshifts, and the Bimodal Color Distribution of Galaxies out to $z \sim 3$, ApJ, 735, 86 (2011)
94. Madore, Barry, Nelson, Erica; Petrillo, Kristen. Atlas and Catalog of Collisional Ring Galaxies ApJS, 181, 572 (2009)