

LIST OF PUBLICATIONS

Song Huang

Oct 2022

FIRST AUTHOR PUBLICATIONS

1. **Huang**, Song., Leauthaud, Alexie., Bradshaw, Christopher., Hearin, Andrew., Behroozi, Peter., Lange, Johannes., Greene, Jenny., DeRose, Joseph., Speagle, Joshua S., Xhakaj, Enia., *MNRAS*, 515, 4722 (2022)
The outer stellar mass of massive galaxies: a simple tracer of halo mass with scatter comparable to richness and reduced projection effects
2. **Huang, S.**, Leauthaud, A., Hearin, A., Behroozi, P., Bradshaw, C., Ardila, F., Speagle, J., Tenneti, A., Greene, J., Bundy, K., Sifón, C., Bahcall, N., *MNRAS*, 492, 3685 (2020)
Weak Lensing Reveals a Tight Connection Between Dark Matter Halo Mass and the Distribution of Stellar Mass in Massive Galaxies
3. **Huang, S.**, Leauthaud, A., Greene, J., Bundy, K., Lin, Y.-T., Tanaka, M., Mandelbaum, R., Miyazaki, S., & Komiyama, Y. *MNRAS*, 480, 521 (2018)
A Detection of the Environmental Dependence of the Sizes and Stellar Haloes of Massive Central Galaxies
4. **Huang, S.**, Leauthaud, A., Greene, J., Bundy, K., Lin, Y.-T., Tanaka, M., Miyazaki, S., & Komiyama, Y. *MNRAS*, 475, 3348 (2018)
Individual Stellar Halos of Massive Galaxies Measured to 100 kpc at $0.3 < z < 0.5$ using Hyper Suprime-Cam
5. **Huang, S.**, Leauthaud, A., Murata, R., Bosch, J., Price, P., Lupton, R., Mandelbaum, R., Lackner, C., Bickerton, S., Miyazaki, S., Coupon, J., & Tanaka, M., *PASJ*, 70S, 6 (2018)
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6. **Huang, S.**, Ho, L. C., Peng, C. Y., Li, Z. -Y. & Barth, A. J, *ApJ*, 821, 114 (2016)
The Carnegie-Irvine Galaxy Survey. IV. A Method to Determine the Average Mass Ratio of Mergers That Built Massive Elliptical Galaxies
7. **Huang, S.**, Ho, L. C., Peng, C. Y., Li, Z. -Y. & Barth, A. J, *ApJ*, 768, L28 (2013)
Fossil Evidence for the Two-Phase Formation of Elliptical Galaxies
8. **Huang, S.**, Ho, L. C., Peng, C. Y., Li, Z. -Y. & Barth, A. J, *ApJ*, 766, 47 (2013)
The Carnegie-Irvine Galaxy Survey. III. The Three-Component Structure of Nearby Elliptical Galaxies
9. **Huang, S.**, & Gu, Q. -S., *MNRAS*, 398, 1651 (2009)
Recent star-forming activity in local elliptical galaxies

NON-FIRST AUTHOR PUBLICATIONS

10. Kado-Fong, Erin., Greene, Jenny E., **Huang, Song.**, Goulding, Andy., arXiv:2209.05492, submitted to *ApJ* (2022)
Ultra-Diffuse Galaxies as Extreme Star-forming Environments I: Mapping Star Formation in HI-Rich UDGs

11. Greene, Jenny E., Greco, Johnny P., Goulding, Andy D., **Huang, Song** [and 8 others], arXiv:2204.11883, submitted to ApJ (2022)
The Nature of Low Surface Brightness Galaxies in the Hyper Suprime-Cam Survey
12. Li, Jiaxuan., **Huang, Song.**, Leauthaud, Alexie., Moustakas, John., Danieli, Shany., Greene, Jenny E., Abraham, Roberto., Ardila, Felipe., Kado-Fong, Erin., Lokhorst, Deborah., Lupton, Robert., Price, Paul., *MNRAS*, 515, 5335. (2021)
Reaching for the Edge I: probing the outskirts of massive galaxies with HSC, DECaLS, SDSS, and Dragonfly
13. Greene, Jenny E., Greco, Johnny P., Goulding, Andy D., **Huang, Song.**, Kado-Fong, Erin., Danieli, Shany., Li, Jiaxuan., Kim, Ji Hoon., Komiyama, Yutaka., Leauthaud, Alexie., MacArthur, Lauren A., Sifón, Cristóbal., *ApJ*, 933, 150. (2022)
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14. Hsu, Yun-Hsin., Lin, Yen-Ting., **Huang, Song.**, [and 16 others], *ApJ*, 933, 61. (2022)
SDSS-IV MaNGA: Cannibalism Caught in the Act-On the Frequency of Occurrence of Multiple Cores in Brightest Cluster Galaxies
15. Kado-Fong, Erin., [and 14 others, including **Huang, Song**], *ApJ*, 931, 152. (2022)
The In Situ Origins of Dwarf Stellar Outskirts in FIRE-2
16. Leauthaud, A., Amon, A., Singh, S., Gruen, D., Lange, J. U., **Huang, S.** [and 101 others], *MNRAS*, 510, 6150. (2022)
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18. Dalal, Roohi., Strauss, Michael A., Sunayama, Tomomi., Oguri, Masamune., Lin, Yen-Ting., **Huang, Song.**, Park, Youngsoo., Takada, Masahiro., *MNRAS*, 507, 4016. (2021)
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Hyper Suprime-Cam Subaru Strategic Program: A Mass-dependent Slope of the Galaxy Size-Mass Relation at $z < 1$
21. Kado-Fong, Erin., Petrescu, Mihai., Mohammad, Majid., Greco, Johnny., Greene, Jenny E., Adams, Elizabeth A. K., **Huang, Song.**, Leisman, Lukas., Munshi, Ferah., Tanoglidis,

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The Intrinsic Shapes of Low Surface Brightness Galaxies (LSBGs): A Discriminant of LSBG Galaxy Formation Mechanisms
22. Greene, Jenny E., Lancaster, Lachlan., Ting, Yuan-Sen., Kuposov, Sergey E., Danieli, Shany., **Huang, Song**., Jiang, Fangzhou., Greco, Johnny P., Strader, Jay., *ApJ*, 917, 17. (2021)
A Search for Wandering Black Holes in the Milky Way with Gaia and DECaLS
 23. Ardila F., **Huang S.**, Leauthaud A., Diemer B., Pillepich A., Chowdhury R., Fiacconi D., et al., *MNRAS*, 500, 432. (2021)
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 25. Storey-Fisher, Kate, Huertas-Company, Marc, Ramachandra, Nesar; Lanusse, Francois, Leauthaud, Alexie, Luo, Yifei, **Huang, Song**. Accepted to the 2020 NeurIPS Machine Learning and the Physical Science Workshop.
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 28. Kado-Fong, Erin and Greene, Jenny E. and **Huang, Song** and Beaton, Rachael and Goulding, Andy D. and Komiyama, Yutaka *ApJ*, 900, 163. (2020)
Tracing the Intrinsic Shapes of Dwarf Galaxies Out to Four Effective Radii: Clues to Low-mass Stellar Halo Formation
 29. Bradshaw, Christopher., Leauthaud, Alexie., Hearin, Andrew., **Huang, Song** & Behroozi, Peter., *MNRAS*, 493, 1, 337-350 (2020)
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 30. Aihara, H., [and 64 others, including **Huang, S.**], *PASJ*, 106A, (2019)
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 31. Speagle, Joshua S., Leauthaud, Alexie., **Huang, Song**., Bradshaw, Christopher P., Ardila, Felipe., Capak, Peter L., Eisenstein, Daniel J., Masters, Daniel C., Mandelbaum, Rachel., More, Surhud, Simet, Melanie, & Sifón, Cristóbal, *MNRAS*, 2579S, (2019)
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32. Ito, Kei, Kashikawa, Nobunari, Toshikawa, Jun, Overzier, Roderik, Tanaka, Masayuki, Kubo, Mariko, Shibuya, Takatoshi, Ishikawa, Shogo, Onoue, Masafusa, Uchiyama, Hisakazu, Liang, Yongming, Higuchi, Ryo, Martin, Crystal L., Lee, Chien-Hsiu, Komiyama, Yutaka & **Huang, Song**, *ApJ*, 878, 68I, (2019)
The Brightest UV-selected Galaxies in Protoclusters at $z \sim 4$: Ancestors of Brightest Cluster Galaxies?
33. Greco, J. P., Goulding, A. D., Greene, J. E., Strauss, M. A., **Huang, S.**, Kim, J. H., Komiyama, Y., *ApJ*, 866, 112, (2018)
A Study of Two Diffuse Dwarf Galaxies in the Field
34. Sun, A.-L., Greene, J. E., Zakamska, N. L., Goulding, A. D., Strauss, M. A., **Huang, S.**, Johnson, S. D., Kawaguchi, T., Matsuoka, Y., Marsteller, A. A., Nagao, T., Toba, Y., *MNRAS*, 480, 2302, (2018)
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35. Kado-Fong, E., Greene, J. E., Hendel, D., Price-Whelan, A. M., Greco, J. P., Goulding, A. D., **Huang, S.**, Johnston, K. V., Komiyama, Y., Lee, C.-H., Lust, N. B., Strauss, M. A., Tanaka, M., *ApJ*, 866, 103, (2018)
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39. Mandelbaum, R., [and 30 others, including **Huang, S.**], *PASJ*, 70S, 25 (2018)
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41. Greco, J. P., Greene, J. E., Price-Whelan, A. M., Leauthaud, A., **Huang, S.**, [and 8 others], *PASJ*, 70S, 19, (2018)
Sumo Puff: Tidal Debris or Disturbed Ultra-Diffuse Galaxy?
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43. Aihara, H., [and 108 others, including **Huang, S.**], *PASJ*, 70, 8, (2018)
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44. Lin, Y.-T., Hsieh, B.-C., Lin, S.-C., Oguri, M., Chen, K.-F., Tanaka, M., Chiu, I., **Huang, S.**, Kodama, T., Leauthaud, A., More, S., Nishizawa, A. J., Bundy, K., Lin, L., Miyazaki, S., *ApJ*, 851, 139 (2017)
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47. Jin, Y., Chen, Y., Shi, Y., Tremonti, C. A., Bershady, M. A., Merrifield, M., Emsellem, E., Fu, H., Wake, D., Bundy, K., Lin, L., Argudo-Fernandez, M., **Huang, S.**, [and 20 others], *MNRAS*, 463, 913 (2016)
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The growth of the central region by acquisition of counterrotating gas in star-forming galaxies
49. Leauthaud, A., Bundy, K., Saito, S., Tinker, J., Maraston, C., Tojeiro, R., **Huang, S.**, Brownstein, J. R., Schneider, D. P., & Thomas, D., *MNRAS*, 457, 4021 (2016)
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50. Davari, R., Ho, L. C., Peng, C. Y. & **Huang, S.**, *ApJ*, 787, 69 (2014)
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53. Jiang, F. -Z., **Huang, S.** & Gu, Q. -S., *RAA*, 11, 309 (2011)
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54. Tang, B. -T., Gu, Q. -S. & **Huang, S.**, *RAA*, 9, 1215 (2009)
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