

Publication List

33. Jin, Z., M. Pasquato*, B. L. Davis*, T. Deleu, Y. Luo, C. Cho, P. Lemos, L. Perreault-Levasseur, Y. Bengio, X. Kang, A. V. Maccio, & Y. Hezaveh (2025) "Causal Discovery in Astrophysics: Unraveling Supermassive Black Hole and Galaxy Coevolution," *ApJ*, **979**, 212 — **Citations = 1** *These authors contributed equally to this work.
32. Waterval, S., A. V. Macciò, T. Buck, A. Obreja, C. Cho, Z. Jin, B. L. Davis, K. L. Dixon, & X. Kang (2024) "HELLO project: high-z evolution of large and luminous objects," *MNRAS*, **533**, 1463 — **Citations = 5**
31. Davis, B. L., A. W. Graham, R. Soria, Z. Jin, I. D. Karachentsev, V. E. Karachentseva, & E. D'Onghia (2024) "Identification of Intermediate-mass Black Hole Candidates among a Sample of Sd Galaxies," *ApJ*, **971**, 123 — **Citations = 2**
30. Amaro-Seoane, P., et al. (2023) "Astrophysics with the Laser Interferometer Space Antenna," *Living Reviews in Relativity*, **26**, 2 — **Citations = 458**
29. Davis, B. L. & Z. Jin (2023) "Discovery of a Planar Black Hole Mass Scaling Relation for Spiral Galaxies," *ApJL*, **956**, L22 — **Citations = 4**
28. Fusco, M. S., B. L. Davis, J. Kennefick, D. Kennefick, & M. S. Seigar (2022) "Probing the low-mass end of the black hole mass function via a study of faint local spiral galaxies," *Universe*, **8**, 649 — **Citations = 5**
27. Shields, D., B. Boe, C. Pfountz, B. L. Davis, M. Hartley, R. Miller, Z. Slade, M. S. Abdeen, D. Kennefick, & J. Kennefick (2022) "Spirality: A Novel Way to Measure Spiral Arm Pitch Angle," *Galaxies*, **10**, 100 — **Citations = 19**
26. Hon, D. S.-H., A. W. Graham, B. L. Davis, & A. Marconi (2022) "Disc cloaking: Establishing a lower limit to the number density of local compact massive spheroids/bulges and the potential fate of some high-z red nuggets," *MNRAS*, **514**, 3410 — **Citations = 16**
25. Abdeen, S., B. L. Davis, R. Eufrazio, D. Kennefick, J. Kennefick, R. Miller, D. Shields, E. B. Monson, C. Bassett, & H. O'Mara (2022) "Evidence in favour of density wave theory through age gradients observed in star formation history maps and spatially resolved stellar clusters," *MNRAS*, **512**, 366 — **Citations = 12**
24. Sahu, N., A. W. Graham, & B. L. Davis (2022) "The (Black Hole Mass)-(Spheroid Stellar Density) Relations: $M_{BH-\mu}$ (and $M_{BH-\Sigma}$) and $M_{BH-\rho}$," *ApJ*, **927**, 67 — **Citations = 12**
23. Sahu, N., A. W. Graham, & B. L. Davis (2022) "The Morphology-dependent Black Hole - Host Galaxy Correlations: A Consequence of Physical Formation Processes," *AcAT*, **3**, 39 — **Citations = 2**
22. Graham, A. W., R. Soria, B. L. Davis, M. Kolehmainen, T. Maccarone, J. Miller-Jones, C. Motch, & D. A. Swartz (2021) "Central X-Ray Point Sources Found to Be Abundant in Low-mass, Late-type Galaxies Predicted to Contain an Intermediate-mass Black Hole," *ApJ*, **923**, 246 — **Citations = 8**
21. Graham, A. W., R. Soria, B. C. Ciambur, B. L. Davis, & D. A. Swartz (2021) "Potential Black Hole Seeding of the Spiral Galaxy NGC 4424 via an Infalling Star Cluster," *ApJ*, **923**, 146 — **Citations = 16**
20. Davis, B. L. & A. W. Graham (2021) "Refining the mass estimate for the intermediate-mass black hole candidate in NGC 3319," *PASA*, **38**, E030 — **Citations = 6**
19. Sahu, N., A. W. Graham, & B. L. Davis (2020) "Defining the (Black Hole)-Spheroid Connection with the Discovery of Morphology-dependent Substructure in the $M_{BH-n_{sph}}$ and $M_{BH-Re,sph}$ Diagrams: New Tests for Advanced Theories and Realistic Simulations," *ApJ*, **903**, 97 — **Citations = 23**
18. Abdeen, S., D. Kennefick, J. Kennefick, R. Miller, D. W. Shields, E. B. Monson, & B. L. Davis (2020) "Determining the co-rotation radii of spiral galaxies using spiral arm pitch angle measurements at multiple wavelengths," *MNRAS*, **496**, 1610 — **Citations = 13**
17. Sahu, N., A. W. Graham, & B. L. Davis (2019) "Revealing Hidden Substructures in the $M_{BH}-\sigma$ Diagram, and Refining the Bend in the $L-\sigma$ Relation," *ApJ*, **887**, 10 — **Citations = 72**
16. Davis, B. L., A. W. Graham, & F. Combes (2019) "A Consistent Set of Empirical Scaling Relations for Spiral Galaxies: The $(v_{max}, M_{DM})-(\sigma_0, M_{BH}, \phi)$ Relations," *ApJ*, **877**, 64 — **Citations = 34**
15. Sahu, N., A. W. Graham, & B. L. Davis (2019) "Black Hole Mass Scaling Relations for Early-type Galaxies. I. $M_{BH}-M_{*,sph}$ and $M_{BH}-M_{*,gal}$," *ApJ*, **876**, 155 — **Citations = 109**
14. Miller, R., D. Kennefick, J. Kennefick, M. Shameer Abdeen, E. Monson, R. T. Eufrazio, D. W. Shields, & B. L. Davis (2019) "Investigating the Origins of Spiral Structure in Disk Galaxies through a Multiwavelength Study," *ApJ*, **874**, 177 — **Citations = 20**
13. Graham, A. W., R. Soria, & B. L. Davis (2019) "Expected intermediate-mass black holes in the Virgo cluster - II. Late-type galaxies," *MNRAS*, **484**, 814 — **Citations = 34**

12. [Davis, B. L., A. W. Graham, & E. Cameron \(2019\)](#) “Black Hole Mass Scaling Relations for Spiral Galaxies. I. $M_{BH}-M_{*,sph}$,” *ApJ*, **873**, 85 — **Citations = 96**
11. [Davis, B. L., A. W. Graham, & E. Cameron \(2018\)](#) “Black Hole Mass Scaling Relations for Spiral Galaxies. II. $M_{BH}-M_{*,tot}$ and $M_{BH}-M_{*,disk}$,” *ApJ*, **869**, 113 — **Citations = 84**
10. [Davis, B. L., A. W. Graham, & M. S. Seigar \(2017\)](#) “Updating the (supermassive black hole mass)-(spiral arm pitch angle) relation: a strong correlation for galaxies with pseudobulges,” *MNRAS*, **471**, 2187 — **Citations = 64**
9. [Koliopanos, F., B. C. Ciambur, A. W. Graham, N. A. Webb, M. Coriat, B. Mutlu-Pakdil, B. L. Davis, O. Godet, D. Barret, & M. S. Seigar \(2017\)](#) “Searching for intermediate-mass black holes in galaxies with low-luminosity AGN: a multiple-method approach,” *A&A*, **601**, A20 — **Citations = 21**
8. [Mutlu-Pakdil, B., M. S. Seigar, & B. L. Davis \(2016\)](#) “The Local Black Hole Mass Function Derived from the $M_{BH}-P$ and the $M_{BH}-n$ Relations,” *ApJ*, **830**, 117 — **Citations = 33**
7. [Pour-Imani, H., D. Kennefick, J. Kennefick, B. L. Davis, D. W. Shields, & M. Shameer Abdeen \(2016\)](#) “Strong Evidence for the Density-wave Theory of Spiral Structure in Disk Galaxies,” *ApJL*, **827**, L2 — **Citations = 42**
6. [Davis, B. L., D. Kennefick, J. Kennefick, K. B. Westfall, D. W. Shields, R. Flatman, M. T. Hartley, J. C. Berrier, T. P. K. Martinsson, & R. A. Swaters \(2015\)](#) “A Fundamental Plane of Spiral Structure in Disk Galaxies,” *ApJL*, **802**, L13 — **Citations = 34**
5. [Davis, B. L. \(2015\)](#) “Logarithmic Spiral Arm Pitch Angle of Spiral Galaxies: Measurement and Relationship to Galactic Structure and Nuclear Supermassive Black Hole Mass,” *University of Arkansas*, PhDT
4. [Seigar, M. S., B. L. Davis, J. Berrier, & D. Kennefick \(2014\)](#) “Constraining Dark Matter Halo Profiles and Galaxy Formation Models Using Spiral Arm Morphology. II. Dark and Stellar Mass Concentrations for 13 Nearby Face-on Galaxies,” *ApJ*, **795**, 90 — **Citations = 20**
3. [Davis, B. L., J. C. Berrier, L. Johns, D. W. Shields, M. T. Hartley, D. Kennefick, J. Kennefick, M. S. Seigar, & C. H. S. Lacy \(2014\)](#) “The Black Hole Mass Function Derived from Local Spiral Galaxies,” *ApJ*, **789**, 124 — **Citations = 50**
2. [Berrier, J. C., B. L. Davis, D. Kennefick, J. D. Kennefick, M. S. Seigar, R. S. Barrows, M. Hartley, D. Shields, M. C. Bentz, & C. H. S. Lacy \(2013\)](#) “Further Evidence for a Supermassive Black Hole Mass-Pitch Angle Relation,” *ApJ*, **769**, 132 — **Citations = 60**
1. [Davis, B. L., J. C. Berrier, D. W. Shields, J. Kennefick, D. Kennefick, M. S. Seigar, C. H. S. Lacy, & I. Puerari \(2012\)](#) “Measurement of Galactic Logarithmic Spiral Arm Pitch Angle Using Two-dimensional Fast Fourier Transform Decomposition,” *ApJS*, **199**, 33 — **Citations = 93**


Total Citations = 1,468 *h-index* = 19 **Papers = 33** **First-author Papers = 11**

Papers by Year: 2012 → 1, 2013 → 1, 2014 → 2, 2015 → 2, 2016 → 2, 2017 → 2, 2018 → 1, 2019 → 6, 2020 → 2, 2021 → 3, 2022 → 6, 2023 → 2, 2024 → 2, & 2025 → 1.

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