
Laura Blecha

Curriculum Vitae

Dept of Physics, University of Florida
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Education

Harvard University

Ph.D. in Astronomy & Astrophysics 2012
A.M. in Astronomy 2008

Cambridge University

M.Phil. in Astronomy 2006

Northwestern University

B.S. in Physics and Integrated Science, with honors 2005

Professional Appointments

Associate Professor 2022 - Present
Physics Dept., University of Florida

Assistant Professor 2017 - 2022
Physics Dept., University of Florida

Joint Space-Science Institute (JSI) Prize Postdoc 2012 - 2017
Astronomy Dept., University of Maryland

Einstein Postdoctoral Fellow 2012 - 2015
Astronomy Dept., University of Maryland

ITC Postdoctoral Fellow 2012
Harvard-Smithsonian Center for Astrophysics

Summary of Research Interests

My research focuses on theoretical studies of supermassive black hole evolution across cosmic time, including their formation, fueling, feedback, and dynamics. I specialize in galactic- to cosmological-scale hydrodynamics simulations with an emphasis on gravitational-wave and multi-messenger signatures. My interests fall into two broad categories: the co-evolution of black holes and their host galaxies, and the dynamics and observable signatures of supermassive black hole binaries, mergers, and recoils. Much of my work also involves making predictions for gravitational-wave source populations detectable with pulsar timing arrays and LISA.

Honors, Awards, and Fellowships

- Sabbatical Visiting Scholar, Center for Computational Astrophysics, Flatiron Institute 2024
- JILA Visiting Fellow, CU Boulder 2023
- Cottrell Scholar Award, Research Corporation for Science Advancement 2021 - 2024

- Postdoctoral Scientist Prize for Excellence, UMD Dept. of Astronomy 2015
- Einstein Postdoctoral Fellowship, NASA 2012 - 2015
- Joint Space Science Institute Prize Postdoc, UMD 2012 - 2017
- Eric R. Keto Prize for Best PhD Thesis in Theoretical Astrophysics, Harvard 2012
- Gates Cambridge Scholarship 2005 - 2006
- Outstanding Junior in Physics and Astronomy Award, Northwestern 2004
- Robert C. Byrd Honors Scholarship 2001 - 2005
- National Merit Scholarship 2001
- Kansas Governor's Scholar 2001
- Kansas Honor Scholar 2001

Research Grants

- [PI] NSF Astronomy & Astrophysics Grant (2023-2026; \$538,767): "Characterizing the Early Co-evolution of Galaxies, Black Holes, and Gravitational-Wave Sources"
- [Co-PI] NSF MPS Invited Proposal (2023-2024; \$82,144): "LEAPS-MPS PI Workshop"; PI: Yoonseok Lee
- [PI] NASA Astrophysics Theory Program (2022-2025; \$509,366): "Bridging the Gap from Galactic Scales to Black Hole Accretion Flows in a Multiphase ISM"
- [PI] NSF MPS Invited Proposal (2022-2024, \$515,421): "Broadening Participation: 2022-2024 MPS Workshops for Young Investigators"; Co-PI: Yoonseok Lee
- [PI] Cottrell Scholar Award, Research Corporation for Science Advancement (2021-2024; \$100,000): "The Making of a Gravitational Wave Source: Probing the Role of Galaxy Assembly in Black Hole Binary and Triple Formation"
- [Co-PI] NSF MPS Invited Proposal (2021-2022; \$32,527): "Broadening Participation: 2021 MPS Workshop for New Investigators"; PI: Yoonseok Lee
- [Co-I/Institutional PI] NASA LISA Preparatory Science: (2021-2024, \$118,270): "Preparing LISA for Intermediate Mass Black Hole Science"; PI: Giacomo Fragione
- [Co-I/Institutional PI] NASA Astrophysics Data Analysis Program (2021-2024; \$58,699): The CANDELS AGN and Merger Catalog: Star Formation and AGN Triggering in Mergers; PI: Julia Comerford
- [PI] NASA Astrophysics Theory Program (2020-2023; \$576,146): "Probing the AGN/Galaxy Connection with a Novel, Explicit Feedback Implementation"
- [PI] NSF Astronomy & Astrophysics Grant (2019-2023; \$660,319): "Collaborative Research: The impacts of massive BH formation and evolution pathways on GW sources"
- [Co-I] NSF MPS Invited Proposal (2019-2021; \$163,194): "Broadening Participation: 2019 MPS Workshop for New Investigators"; PI: Yoonseok Lee
- [PI] NSF Astronomy & Astrophysics Grant (2017-2020; \$285,550): "Modeling (Dual) Active Galactic Nuclei in Mergers: Unique Probes of Black Hole Inspiral and Growth"

Publications

Refereed Publications

- Amaro-Seoane, P. and 157 coauthors (incl. **Blecha, L.**) 2023, “Astrophysics with the Laser Interferometer Space Antenna”, 316 pages, [Living Reviews in Relativity, 26, 2](#)
- Agazie, G. and 92 coauthors (including **Blecha, L.**), the NANOGrav Collaboration 2023, “The NANOGrav 15-year Data Set: Search for Anisotropy in the Gravitational-Wave Background”, [ApJL, 956, L3](#)
- Agazie, G. and 113 coauthors (including **Blecha, L.**), the NANOGrav Collaboration 2023, “The NANOGrav 15-year Data Set: Constraints on Supermassive Black Hole Binaries from the Gravitational Wave Background”, [ApJL, 952, L37](#)
- Pfeifle, R. W., Weaver, K., Satyapal, S., Ricci, C., Secret, N. J., Gliozzi, M., **Blecha, L.**, & Rothberg, B. 2023, “NuSTAR Observations of Four Mid-IR Selected Dual AGN Candidates in Galaxy Mergers”, 21 pages, [ApJ, 954, 116](#)
- Agazie, G. and 98 coauthors (including **Blecha, L.**), the NANOGrav Collaboration 2023, “The NANOGrav 15-year Data Set: Bayesian Limits on Gravitational Waves from Individual Supermassive Black Hole Binaries”, [ApJL, 951, L50](#)
- Arzoumanian, Z. and 78 coauthors (including **Blecha, L.**), the NANOGrav Collaboration 2023, “The NANOGrav 12.5-year Data Set: Bayesian Limits on Gravitational Waves from Individual Supermassive Black Hole Binaries”, [ApJL, 951, L28](#)
- Afzal, A. and 123 coauthors (including **Blecha, L.**), the NANOGrav Collaboration 2023, “The NANOGrav 15-year Data Set: Search for Signals from New Physics”, [ApJL, 951, L11](#)
- Agazie, G. and 91 coauthors (including **Blecha, L.**), the NANOGrav Collaboration 2023, “The NANOGrav 15-year Data Set: Detector Characterization and Noise Budget”, [ApJL, 951, L10](#)
- Agazie, G. and 100 coauthors (including **Blecha, L.**), the NANOGrav Collaboration 2023, “The NANOGrav 15-year Data Set: Observations and Timing of 68 Millisecond Pulsars”, [ApJL, 951, L9](#)
- Agazie, G. and 114 coauthors (including **Blecha, L.**), the NANOGrav Collaboration 2023, “The NANOGrav 15-year Data Set: Evidence for a Gravitational-Wave Background”, [ApJL, 951, L8](#)
- Nevin, R., **Blecha, L.**, Comerford, J., Simon, J., Terrazas, B. A., Barrows, R. S., Vazquez-Mata, J. A. 2023, “A declining major merger fraction with redshift in the local Universe: the largest-yet catalog of major and minor mergers in SDSS”, [MNRAS 522, 1-28](#)
- Falxa, M. and 127 coauthors (incl. **Blecha, L.**, the IPTA Collaboration, 2023, “Searching for continuous Gravitational Waves in the second data release of the International Pulsar Timing Array”, [MNRAS, 521, 5077-5086](#)
- Yang, J. and 55 coauthors (incl. **Blecha, L.**) 2023, “A Spectroscopic survey of biased halos In the Reionization Era (ASPIRE): A First Look at the Rest-frame Optical Spectra of $z > 6.5$ Quasars using JWST”, [ApJL, 951, L5](#)

- Wang, F. and 58 coauthors (incl. **Blecha, L.**) 2023, “A SPectroscopic survey of biased halos In the Reionization Era (ASPIRE): JWST Reveals a Filamentary Structure around a $z=6.61$ Quasar”, [ApJL, 951, L4](#)
- Koss, M., Treister, E., Kakkad, D., Casey-Clyde, J. A., Kawamuro, T., Williams, J., Foord, A., Trakhtenbrot, B., Bauer, F. E., Privon, F., Ricci, C., Mushotzky, R., Barcos-Munoz, L., **Blecha, L.**, Connor, T., Harrison, F., Liu, T., Magno, M., Mingarelli, C. M. F., Muller-Sanchez, F., Oh, K., Shimizu, T. T., Smith, K. L., Stern, D., Parra Tello, M., Urry, C. M., 2023, “UGC 4211: A confirmed Dual AGN in the Local Universe at 230 pc Nuclear Separation”, [ApJL, 942, L24](#)
- Sivasankaran, A., **Blecha, L.**, Torrey, P., Kelley, L. Z., Bhowmick, A., Vogelsberger, M., Losacco, R., Weinberger, R., Hernquist, L., Marinacci, F., Sales, L. V., Qi, J. 2022, “Simulations of black hole fueling in isolated and merging galaxies with an explicit, multiphase ISM”, 16 pages, [MNRAS, 517, 4752-4767](#)
- Bogdanović, T., Miller, M. C., & **Blecha, L.** 2022, “Electromagnetic Counterparts to Massive Black Hole Mergers”, [Living Reviews in Relativity, 25, 3](#)
- Bhowmick, A., **Blecha, L.**, Ni, Y., Di Matteo, T., Torrey, P., Kelley, L. Z., Vogelsberger, M., Weinberger, R., Hernquist, L. 2022, “Probing the $z > 6$ quasars in a universe with IllustrisTNG physics: Impact of black hole seeding and accretion models”, [MNRAS, 516, 138-157](#)
- Matzko, W., Satyapal, S., Ellison, S. L., Sexton, R. O., Secrest, N., Canalizo, G., **Blecha, L.**, Patton, D. R., Scudder, J. M. 2022, “Galaxy Pairs in the Sloan Digital Sky Survey XV: Properties of Ionised Outflows”, [MNRAS, 514, 4828-4844](#)
- Ding, X., Silverman, J., Treu, T., Li, J., Bhowmick, A., Menci, N., Volonteri, M., **Blecha, L.**, Di Matteo, T., Dubois, Y. 2022, “Concordance between observations and simulations in the evolution of the mass relation between supermassive black holes and their host galaxies”, [ApJ, 933, 132](#)
- Morishita, T., Chiaberge, M., Hilbert, B., Lambrides, E., **Blecha, L.**, Baum, S., Bianchi, S., Capetti, A., Castignani, G., Macchetto, F. D., Miley, G. K., O’Dea, C. P., Normal, C. A. 2022, “The Host Galaxy of the Recoiling Black Hole Candidate in 3C186: An Old Major Merger Remnant at the Center of a $z=1$ Cluster”, [ApJ, 931, 165](#)
- Bhowmick, A., **Blecha, L.**, Torrey, P., Kelley, L. Z., Vogelsberger, M., Nelson, D., Weinberger, R., & Hernquist, L. 2022, “Impact of gas spin and Lyman-Werner flux on black hole seed formation in cosmological simulations: implications for direct collapse”, [MNRAS, 510, 177-196](#)
- Bhowmick, A., **Blecha, L.**, Torrey, P., Kelley, L. Z., Vogelsberger, M., Kociw, K., Nelson, D., Weinberger, R., & Hernquist, L. 2021, “Impact of gas based seeding on supermassive black hole populations at $z \geq 7$ ”, [MNRAS, 507, 2012-2036](#)
- Hogg, J. D., **Blecha, L.**, Reynolds, C. S., Smith, K. L., & Winter, L. M. 2021, “2MASX J00423991 + 3017515: an offset active galactic nucleus in an interacting system”, [MNRAS, 503, 1688](#)
- Cann, J. M., Satyapal, S., Rothberg, B., Canalizo, G., Bohn, T., LaMassa, S., Matzko, W., **Blecha, L.**, Secrest, N. J., Seth, A., Böker, T., Sexton, R. O., Kamal, L., & Schmitt, H., 2021, “Relics of Supermassive Black Hole Seeds: The Discovery of an Accreting Black Hole in an Optically Normal, Low Metallicity Dwarf Galaxy”, [ApJL, 912, L2](#)

- Nevin, R.; **Blecha, L.**; Comerford, J.; Greene, J. E.; Law, D. R.; Stark, D. V.; Westfall, K. B.; Vázquez-Mata, J. A.; Smethurst, R.; Argudo-Fernández, M.; Brownstein, J. R.; Drory, N. 2021, “Accurate Identification of Galaxy Mergers with Stellar Kinematics”, [ApJ, 912, 45](#)
- Sayeb, M., **Blecha, L.**, Kelley, Luke Z., Gerosa, D., Kesden, M., & Thomas, J. 2021, “Massive black hole binary inspiral and spin evolution in a cosmological framework”, [MNRAS, 501, 2531](#)
- Secret, N., Ellison, Sara L., Satyapal, S., **Blecha, L.** 2020, “The X-ray View of Merger-Induced AGN Activity at Low Redshift”, [MNRAS, 499, 2380](#)
- Bhowmick, **Blecha**, & Thomas 2020, “Supermassive black hole fueling in IllustrisTNG: Impact of environment”, [ApJ, 904, 150](#)
- Liu, T., Koss, M., **Blecha, L.**, Ricci, C., Trakhtenbrot, B., Mushotzky, R., Harrison, F., Ichikawa, K., Kakkad, D., Oh, K., Powell, M., Privon, G. C., Schawinski, K.; Shimizu, T. Taro; Smith, Krista Lynne; Stern, Daniel; Treister, Ezequiel; Urry, C. Megan 2019, “The BAT AGN Spectroscopic Survey – XVIII. Searching for Supermassive Black Hole Binaries in the X-rays”, [ApJ, 896, 122](#)
- Cann, J. M., Satyapal, S., Bohn, T., Sexton, R., Pfeifle, R., Manzano-King, C., Canalizo, G., Rothberg, B., Gliozzi, M., Secret, N. J., & **Blecha, L.** 2020, “Multi-wavelength Observations of J105621+313823, a Broad-Line, Low-Metallicity AGN”, [ApJ, 895, 147](#)
- Privon, G. C., Ricci, C., Aalto, S., Viti, S., Armus, L., Díaz-Santos, T., González-Alfonso, E., Iwasawa, K., Jeff, D. L., Treister, E., Bauer, F., Evans, A. S., Garg, P., Herrero-Illana, R., Mazarella, J. M., Larson, K., **Blecha, L.**, Barcos-Muñoz, L., Charmandaris, V., Stierwalt, S., & Pérez-Torres, M. A. 2020, “A Hard X-ray Test of HCN Enhancements as a Tracer of Embedded Black Hole Growth”, [ApJ, 893, 149](#)
- Katz, M. L., Kelley, L. Z., Dosopoulou, F., Berry, S., **Blecha, L.**, & Larson, S. L. 2020, “Probing massive black hole binary populations with LISA”, [MNRAS, 491, 2301-2317](#)
- Pfeifle, R. W., Satyapal, S., Manzano-King, C., Cann, J. M., Sexton, R., Rothberg, B., Canalizo, G., Ricci, C., **Blecha, L.**, Ellison, S. L., Gliozzi, M., Secret, N. J., Constantin, A. 2019, “A Triple AGN in a Mid-Infrared Selected Late Stage Galaxy Merger”, [ApJ, 883, 167](#)
- Pfeifle, R., W., Satyapal, S., Secret, N. J., Gliozzi, M., Ricci, C., Ellison, S. L., Rothberg, B., Cann, J., **Blecha, L.**, Williams, J. K., & Constantin, S. 2019, “Buried Black Hole Growth in IR-Selected Mergers: New Results from Chandra”, [ApJ, 875, 117](#)
- Nevin, R., **Blecha, L.**, Comerford, J., & Greene, J. 2019, “Accurate Identification of Galaxy Mergers with Imaging”, [ApJ, 872, 76](#)
- Cann, J. M., Satyapal, S., Abel, N. P., **Blecha, L.**, Mushotzky, R. F., Reynolds, C. S., and Secret, N. J. 2019, “The Limitations of Optical Spectroscopic Diagnostics in Identifying Active Galactic Nuclei in the Low-mass Regime”, [ApJL, 870, L2](#)
- Koss, M., **Blecha, L.**, Bernhard, P., Hung, C.-L., Lu, J., Schawinski, K., Treister, E., Mushotzky, R., Veilleux, S., Gehrels, N., & Sanders, D. 2018, “A population of luminous accreting black holes with hidden mergers”, [Nature, 563, 214](#)
- **Blecha, L.**, Brisken, W., Burke-Spolaor, S., Civano, F., Comerford, J., Darling, J., Lazio, T. J. W., and Maccarone, T. J. 2019, “Offset Active Galactic Nuclei”, in [Science with a Next-Generation](#)

Very Large Array, ed. E. J. Murphy & the ngVLA Science Advisory Council (San Francisco, CA: Astronomical Society of the Pacific), 763, [arxiv:1810.06609](#)

- Burke-Spolaor, S., **Blecha, L.**, Bogdanovic, T., Comerford, J. M., Lazio, T. J. W., Liu, X., Maccarone, T. J., Pesce, D., Shen, Y., and Taylor, G. 2019, “The Next-Generation Very Large Array: Supermassive Black Hole Pairs and Binaries”, in *Science with a Next-Generation Very Large Array*, ed. E. J. Murphy & the ngVLA Science Advisory Council (San Francisco, CA: Astronomical Society of the Pacific), 677, [arxiv:1808.04368](#)
- **Blecha, L.**, Snyder, G. F., Satyapal, S., & Ellison, S. L. 2018, “The power of infrared AGN selection in mergers: a theoretical study”, *MNRAS*, **478**, 3056
- Cann, J., Satyapal, S., Abel, T., Ricci, C., Gliozzi, M., **Blecha, L.**, & Secret, N. J. 2018, “The Hunt for Intermediate Mass Black Holes in the JWST Era”, *ApJ*, **861**, 142
- Kelley, L. Z., **Blecha, L.**, Hernquist, L., Sesana, A., Taylor, S. R. 2018, “Single Sources in the Low-Frequency Gravitational Wave Sky: properties and time to detection by pulsar timing arrays”, *ApJ*, **477**, 964
- Kelley, L. Z., **Blecha, L.**, Hernquist, L., Sesana, A., Taylor, S. R. 2017, “The gravitational wave background from massive black hole binaries in Illustris: spectral features and time to detection with pulsar timing arrays”, *MNRAS*, **471**, 4508
- Satyapal, S., Secret, N. J., Ricci, C., Ellison, S. L., Rothberg, B., **Blecha, L.**, Constantin, A., Gliozzi, M., McNulty, P., Ferguson, J. 2017, “Buried AGNs in Advanced Mergers: Mid-infrared Color Selection as a Dual AGN Candidate Finder”, *ApJ*, **848**, 126
- Ricci, C., Bauer, F. E., Treister, E., Schawinski, K., Privon, G. C., **Blecha, L.**, Arevalo, P., Armus, L., Harrison, F., Ho, L. C., Iwasawa, K., Sanders, D. B., & Stern, D. 2017, “Growing supermassive black holes in the late stages of galaxy mergers are heavily obscured”, *MNRAS*, **468**, 1273
- Secret, N., Schmitt, H., **Blecha, L.**, Rothberg, B., & Fischer, J. 2017, “Was 49b: An Overmassive AGN in a Merging Dwarf Galaxy?”, *ApJ*, **836**, 183
- Kelley, L. Z., **Blecha, L.**, & Hernquist, L., 2017, “Massive Black Hole Binary Mergers in Dynamical Galactic Environments”, *MNRAS*, **464**, 3131
- **Blecha, L.**, Sijacki, D., Kelley, L. Z., Torrey, P., Vogelsberger, M., Nelson, D., Springel, V., Snyder, G., Hernquist, L. 2016, “Recoiling black holes: prospects for detection and implications of spin alignment”, *MNRAS*, **456**, 961-989
- Nelson, D., Pillepich, A., Genel, S., Vogelsberger, M., Springel, V., Torrey, P., Rodriguez-Gomez, V., Sijacki, D., Snyder, G., Griffen, B., Marinacci, F., **Blecha, L.**, Sales, L., Xu, D., Hernquist, L. 2015, “The Illustris Simulation: Public Data Release”, *Astronomy and Computing*, **13**, 12-37
- Koss, M., **Blecha, L.**, Mushotzky, R., Hung, C. L., Veilleux, S., Trakhtenbrot, B., Schawinski, K., Stern, D., Smith, N., Li, Y., Man, A., Filippenko, A., Mauerhan, J., Stanek, K., Sanders, D. 2014, “SDSS1133: An Unusually Persistent Transient in a Nearby Dwarf Galaxy”, *MNRAS*, **445**, 515 - 527
- Dierickx, M., **Blecha, L.**, & Loeb, A. 2014, “Signatures of the M31-M32 Galactic Collision”, *ApJL*, **788**, L38

- **Blecha, L.**, Loeb, A., & Narayan, R. 2013, “Double-Peaked Narrow-Line Signatures of Dual Supermassive Black Holes in Galaxy Merger Simulations”, [MNRAS, 429, 2594 - 2616](#)
- **Blecha, L.**, Civano, F., Elvis, M., & Loeb, A. 2013, “Constraints on the Nature of CID-42: Recoil Kick or Supermassive Black Hole Pair?”, [MNRAS, 428, 1341 - 1350](#)
- Civano, F., Elvis, M., Lanzuisi, G., Aldcroft, T., Trichas, M., Bongiorno, A., Brusa, M., **Blecha, L.**, and 10 coauthors 2012, “Chandra High-resolution observations of CID-42, a Candidate Recoiling Supermassive Black Hole”, [ApJ, 752, 49 - 56](#)
- **Blecha, L.**, Cox, T. J., Loeb, A., & Hernquist, L. 2011, “Recoiling black holes in merging galaxies: relationship to active galactic nucleus lifetimes, starbursts and the $M_{\text{BH}} - \sigma_*$ relation”, [MNRAS, 412, 2154 - 2182](#)
- Civano, F., Elvis, M., Lanzuisi, G., Jahnke, K., Zamorani, G., **Blecha, L.**, and 35 coauthors 2010, “A Runaway Black Hole in COSMOS: Gravitational Wave or Slingshot Recoil?”, [ApJ, 717, 209 - 222](#)
- **Blecha, L.** & Loeb, A. 2008, “Effects of gravitational-wave recoil on the dynamics and growth of supermassive black holes”, [MNRAS, 390, 1311 - 1325](#)
- **Blecha, L.**, Ivanova, N., Kalogera, V., Belczynski, K., Fregeau, J., & Rasio, F. 2006, “Close Binary Interactions of Intermediate-Mass Black Holes: Possible Ultraluminous X-Ray Sources?”, [ApJ, 642, 427 - 437](#)

Submitted Publications

- Agazie, G. and 98 coauthors (including **Blecha, L.**), the NANOGrav Collaboration 2023, “The NANOGrav 15-year data set: Search for Transverse Polarization Modes in the Gravitational-Wave Background”, [submitted to ApJ](#)
- Agazie, G. and 87 coauthors (including **Blecha, L.**), the NANOGrav Collaboration 2023, “The NANOGrav 12.5-year data set: Multi-messenger targeted search for gravitational waves from an eccentric supermassive binary in 3C 66B”, [submitted to ApJ](#)
- Bhowmick, A. K., **Blecha, L.**, Torrey, P., Weinberger, R., Kelley, L. Z., Vogelsberger, M., Hernquist, L., & Somerville, R. S. 2023, “Representing low mass black hole seeds in cosmological simulations: A new sub-grid stochastic seed model”, [submitted to MNRAS](#)
- Evans, A. E., **Blecha, L.**, Bhowmick, A. K. 2023, “Building Semi-Analytic Black Hole Seeding Models Using IllustrisTNG Host Galaxies”, [submitted to MNRAS](#)
- Bécsy, B. and 95 coauthors (including **Blecha, L.**), the NANOGrav Collaboration 2023, “How to Detect an Astrophysical Nanohertz Gravitational-Wave Background”, [submitted to ApJ](#)
- Agazie, G. and 243 coauthors (including **Blecha, L.**), the International Pulsar Timing Array Collaboration 2023, “Comparing recent PTA results on the nanohertz stochastic gravitational wave background”, [submitted to ApJ](#)
- Agazie, G. and 89 coauthors (including **Blecha, L.**), the NANOGrav Collaboration 2023, “The NANOGrav 12.5-year Data Set: Search for Gravitational Wave Memory”, [arXiv:2307.13797](#)
- Sayeb, M., **Blecha, L.**, & Kelley, L. Z. 2023, “MBH binary intruders: triple systems from cosmological simulations”, [submitted to MNRAS](#)

Non-Refereed Publications

- Johnson, A. D. and 95 coauthors (including **Blecha, L.**), the NANOGrav Collaboration 2023, “The NANOGrav 15-year Gravitational-Wave Background Analysis Pipeline”, [arXiv:2306.16223](https://arxiv.org/abs/2306.16223)
- **Blecha, L.**, Brisken, W., Burke-Spolaor, S., Civano, F., Comerford, J., Darling, J., Lazio, T. J. W., & Maccarone, T. J., 2019: “Detecting Offset Active Galactic Nuclei”, [Astro2020: Decadal Survey on Astronomy and Astrophysics, science white papers, no. 318](#)
- Besla, G., and 98 coauthors (incl. **Blecha, L.**) 2019: “Training the Future Generation of Computational Researchers”, [Astro2020: Decadal Survey on Astronomy and Astrophysics, APC white papers, no. 11](#); [Bulletin of the American Astronomical Society, 51, id. 11](#)
- Civano, F., Cappelluti, N., Hickox, R., Canning, R., Aird, J., Ajello, M., Allen, S., Bañados, E., **Blecha, L.**, Brandt, W. N., Brusa, M., Carrera, F., Cappi, M., Comastri, A., Dolag, K., Donahue, M., Elvis, M., Fabbiano, G., Fornasini, F., Gandhi, P., Georgakakis, A., Holley-Bockelmann, K., Koekemoer, A., Goulding, A., Jones, M., Laha, S., LaMassa, S., Lanzuisi, G., Lanz, L., Mantz, A., Marchesi, S., Mezcua, M., Mingo, B., Nandra, K., Stern, D., Swartz, D., Tremblay, G., Tzanavaris, P., Vikhlinin, A., Vito, F., & Wilkes, B. 2019: “Cosmic evolution of supermassive black holes: A view into the next two decades”, [Astro2020: Decadal Survey on Astronomy and Astrophysics, science white papers, no. 429](#); [Bulletin of the American Astronomical Society, Vol. 51, Issue 3, id. 429 \(2019\)](#)
- Kelley, L. Z., Charisi, M., Burke-Spolaor, S., Simon, J., **Blecha, L.**, Bogdanovic, T., Colpi, M., Comerford, J., D’Orazio, D. J., Dotti, M., Eracleous, M., Graham, M., Greene, J. E., Haiman, Z., Holley-Bockelmann, K., Kara, E., Kelly, B., Komossa, S., Larson, S. L., Liu, X., Ma, C.-P., Noble, S., Paschalidis, V., Rafikov, R. R., Ravi, V., Runnoe, J. C., Sesana, A., Stern, D., Strauss, M. A., U, V., Volonteri, M., & the NANOGrav Collaboration 2019: “Multi-Messenger Astrophysics with Pulsar Timing Arrays”, [Astro2020 Decadal Survey White Paper, Astro2020: Decadal Survey on Astronomy and Astrophysics, science white papers, no. 429](#); [Bulletin of the American Astronomical Society, 51, id. 490](#)
- Koss, M., U, V., Hodges-Kluck, E., Treister, E., **Blecha, L.**, Ricci, C., Kartaltepe, J., Kocevski, D., Comerford, J. M., Barrows, R. S., Cicone, C., Muller-Sanchez, F., Gultekin, K., Foord, A., Satyapal, S., & Lotz, J., 2019: “Black Hole Growth in Mergers and Dual AGN”, [Astro2020: Decadal Survey on Astronomy and Astrophysics, science white papers, no. 504](#)
- **Blecha, L.** 2015: “The Dynamic Lives of Supermassive Black Holes in Merging Galaxies”, [Proceedings of the Frank N. Bash Symposium 2015 \(BASH2015\)](#). 18-20 October. The University of Texas at Austin, USA.
- **Blecha, L.**, Cox, T. J., Loeb, A., & Hernquist, L. 2012: “Recoiling Black Holes in Merging Galaxies: Relationship to AGN Lifetimes, Starbursts, and the $M - \sigma$ Relation”, [Advances in Computational Astrophysics: Methods, Tools, & Outcomes, ASP Conference Proceedings, 453, 187](#)
- **Blecha, L.**, Cox, T. J., Loeb, A., & Hernquist, L., 2010: “Recoiling black holes in merging galaxies: relationship to active galactic nucleus lifetimes, starbursts and the $M_{\text{BH}} - \sigma_*$ relation”, [Proceedings of the 25th Texas Symposium on Relativistic Astrophysics, 9](#)

Selected Press

- “Gravitational Wave Background”
[Astronarium Ep. 166](#) (Polish popular science TV series) Oct. 15, 2023
- “In A Major Discovery, Scientists Say Space-Time Churns Like A Choppy Sea”
[The Washington Post](#) June 28, 2023
 “The Cosmos Is Thrumming With Gravitational Waves, Astronomers Find”
[The New York Times](#) June 28, 2023
 “Scientists Have Found Signs of A New Kind of Gravitational Wave. It’s Really Big”
[NPR](#) June 28, 2023
 “Scientists Found Ripples in Space and Time. And You Have to Buy Groceries.”
[The Atlantic](#) June 29, 2023
- “Discovery of the Closest-Separation Multiwavelength Dual Active Galactic Nuclei”
[AAS 241 Press Conference](#) Jan. 9, 2023
 “ALMA Scientists Find Pair of Black Holes Dining Together in Nearby Galaxy Merger”
[NRAO Press Release](#) Jan. 9, 2023
 “Scientists Find Black Holes Tangled in Cosmic Dance”
[University of Florida CLAS News](#) Jan. 9, 2023
- “Found: Three Black Holes on Collision Course”
[NASA/Chandra Press Release](#) Sept. 25, 2019
- “UF Astronomer Joins Team of Researchers Studying Black Hole Mergers”
[UF CLAS News](#) Nov. 7, 2018
 “Astronomers Unveil Growing Black Holes in Colliding Galaxies”
[NASA/Hubble Press Release](#) Nov. 7, 2018
 “Astronomers Get Best View Yet Of Supermassive Black Holes In Merging Galaxies, Slowly Moving On A Collision Course With Each Other”
[Keck Observatory News](#) Nov. 7, 2018
- “Seeing Double: Scientists Find Elusive Giant Black Hole Pairs”
[NASA/Chandra Press Release](#) Oct. 3, 2017
- “Merging Galaxies Have Enshrouded Black Holes”
[NASA/NuSTAR Press Release](#) May 9, 2017
- “NuSTAR Probes Puzzling Galaxy Merger”
[NASA/NuSTAR Press Release](#) Mar. 27, 2017
- “NASA’s Swift Mission Probes an Exotic Object: ‘Kicked’ Black Hole or Mega Star?”
[NASA/Swift Press Release](#) Nov. 19, 2014
 “A Jettisoned Black Hole?”
[ETH-Zurich Press Release](#) Nov. 19, 2014
- “Galactic collision gave Andromeda its arms”
[Nature News](#) June 3, 2014
- “Giant Black Hole Kicked Out of Home Galaxy”
[NASA/Chandra Press Release](#) June 6, 2012

Competitively-Awarded Telescope Time

- [Co-I] ALMA Cycle 10, “A complete ALMA study of AGN in Nearby Major Galaxy Mergers at $\lesssim 5$ kpc Nuclear Separations”, PI: Ezequiel Treister
- [Co-I] JWST Cycle 2, “BEES: Black hole Extended Emission Search”, PI: Anna-Christina Eilers
- [Co-I] JWST Cycle 2, “First spatially resolved characterization of a radio-driven outflow at $z \sim 6$ ”, PI: Eduardo Bañados
- [Co-I] ALMA Cycle 8, “High Resolution observations of the Molecular Gas in AGN hosted by Major Galaxy Mergers”, PI: Ezequiel Treister
- [Co-I] ALMA Cycle 8, “Mapping the Host Galaxy Dynamics of a Possible GW Recoiling AGN”, PI: James Drew Hogg
- [Co-I] ALMA Cycle 8, “Triggering Mechanisms of Quasars and Black Hole Fueling in the Early Universe”, PI: Anna-Christina Eilers
- [Co-I] JWST Cycle 1: “A Comprehensive JWST View of the Most Distant Quasars Deep Into the Epoch of Reionization”, PI: Xiaohui Fan
- [Co-I] JWST Cycle 1: “Unveiling the Nature of CID- 42. The Best Candidate for a Gravitational Wave Recoiling Supermassive Black Hole”, PI: Francisco Mueller-Sanchez
- (Co-I) JWST Cycle 1: “Mapping A Distant Protocluster Anchored by A Luminous Quasar in the Epoch of Reionization”, PI: Feige Wang
- (Co-I) JWST Cycle 1: “Nebular line diagnostics in a merger at cosmic dawn”, PI: Roberto Decarli
- (Co-I) JWST Cycle 1: “Uncovering Intermediate Mass Black Holes with JWST: Pushing the Frontier”, PI: Shobita Satyapal
- (Co-I) JWST Cycle 1: “A Spectroscopic survey of biased halos In the Reionization Era (ASPIRE): A JWST Quasar Legacy Survey”, PI: Feige Wang
- (Co-I) ALMA Cycle 6: “A Search for Infrared Cores in Compton Thick AGN” PI: George Privon
- (Co-I) NuSTAR Cycle 4: “WISE Discovery of the Largest Sample of Obscured Dual AGNs: A NuSTAR Follow-up”; PI: Shobita Satyapal
- (Co-I) VLA 2019A: “Gas Kinematics Around the Was49 System”, PI: Nathan Secrest
- (Co-I) VLBA 2018B: “Extreme AGN Feedback in Minor Mergers: The VLBA View of Was 49b”; PI: Nathan Secrest
- (PI) Discovery Channel Telescope (DCT) 2017Q2: “Was 49: The DCT Spectroscopic View”, Observing Co-I: Nathan Secrest
- (PI) DCT 2016Q2: “Was 49: The DCT View”, Observing Co-I: Nathan Secrest
- (Co-I) HST Cycle 25: “The HST View of Was 49b: An Overmassive AGN in a Merging Dwarf Galaxy?”, PI: Nathan Secrest
- (Co-PI) DCT 2014Q3: “AGN in Candidate Dwarf Galaxy Hosts”, Co-PI: Richard Mushotzky,
- (Co-I) ALMA Cycle 5: “A Search for Infrared Cores in Compton Thick AGN”, PI: George Privon
- (Co-I) ALMA Cycle 5: “2MASS J00423991+3017515: An AGN On The Run?”, PI: J. Drew Hogg

- (Co-I) Joint XMM AO-17 & NuSTAR: “Unveiling a Population of Buried Dual AGNs: An XMM+NuSTAR Follow-up”, PI: Shobita Satyapal
- (Co-I) XMM AO-17: “Characterizing the Intrinsic Absorption Along the Merger Sequence with XMM-Newton”, PI: Shobita Satyapal
- (Co-I) XMM AO-16: “Studying Merger Driven Obscuration in Dual AGN”, PI: Michael Koss
- (Co-I) Joint Chandra Cycle 18 & NuSTAR: “WISE Discovery of the Largest Sample of Obscured Dual AGNs: A Chandra and NuSTAR Follow-up”, PI: Shobita Satyapal
- (Co-I) Joint HST Cycle 24 & Chandra: “2MASS J00423991+3017515: An AGN On The Run?”, PI: Drew Hogg
- (Co-I) VLA 2016B: “Clarifying the Nature of Was 49: A Quasar in a Minor Merger?”, PI: Nathan Secrest
- (Co-I) Chandra Cycle 17: “Studying Dual AGN Activity and Obscuration in the Final Merger Stage (< 3 kpc)”, PI: Michael Koss
- (Co-I) XMM AO-15: “WISE Discovery of the Largest Sample of Obscured Dual AGNs: An XMM-Newton Follow-up”, PI: Shobita Satyapal
- (Co-PI) HST Cycle 22: “A Candidate Recoiling Black Hole in a Nearby Dwarf Galaxy”, Co-PI: Michael Koss
- (Co-I) XMM AO-14: “A Candidate Recoiling Black Hole in a Nearby Dwarf Galaxy”, PI: Michael Koss
- (Co-I) Chandra Cycle 16: “Uncovering AGN Fueling and Feedback in Dwarf Galaxies”, PI: Richard Mushotzky

Competitively-Awarded Computing Allocations

- (Co-I) NSF XSEDE (2022. 5.8M CPU hrs): “Studying the competition between dark matter and baryons in shaping galaxy properties”, PI: Paul Torrey
- (Co-PI) NSF XSEDE (2018; 1.24M CPU hrs): “An Imaging and Kinematic Approach for Improved Galaxy Merger Identifications”, Co-PI: Rebecca Nevin
- (PI) NSF XSEDE (2017; 0.42M CPU hours): “Modeling (Dual) Active Galactic Nuclei in Mergers: Unique Probes of Black Hole Inspiral and Growth”
- (PI) NSF XSEDE (2015-2016; 1.0M CPU hours): “Modeling the Kinematic and Radiative Signatures of Active Black Holes”
- (PI) NSF XSEDE (2014; 2.0M CPU-hours): “Modeling the Signatures of Supermassive Black Holes in Galaxy Mergers”

Teaching & Advising

Courses Taught at UF

- PHY5905: Computational Physics, Spring 2023
- PHY6246: Graduate Classical Mechanics, Fall 2021, Fall 2022

- PHY4095/5905: Physical Modeling & Simulation, Fall 2019, Spring 2022
- PHY2060: Enriched Physics w/ Calc 1, Spring 2019, Fall 2020, Spring 2021
- PHZ5155C/PHY4095: Physical Modeling & Simulation, Fall 2018
- PHY2054: Physics 2, Discussion Sections (3), Spring 2018

Current Research Group at UF

- Aklant Bhowmick, Postdoctoral researcher
- Analis Evans, Graduate student
- Joseph Fichera, Graduate student
- Pranav Satheesh, Graduate student
- Aneesh Sivasankaran, Graduate student
- Austin Fraley, Undergraduate student

Former Research Advisees at UF

- Rachel Mechum, B.S. Astrophysics, 2022
- Meredith Vogel, M.S. Physics, 2023
- Sydnee O'Donnell, B.S. Astrophysics, 2023
- Mohammad Sayeb, Ph.D. Physics, 2021
- Neil Ash, B.S. Physics, 2021
- Kaitlyn Kosciw, B.S. Astrophysics, 2020
- Giraldo Pino, B.S. Physics, 2019
- July Thomas, M.S. Physics, 2018
- Megan Newsome, B.S. Astrophysics, 2018

Selected Academic Service

- Referee for Nature, Science, ApJ, MNRAS, Phys. Rev. D., A&A, & NAR
- Full Member, NANOGrav Collaboration (Co-Chair, Equity & Climate Committee) 2021 - Present
- Associate Member, LISA Consortium, 2018 - Present
- ngVLA Science Advisory Council, 2022 - Present
- Fermi Space Telescope Users Group, 2020 - Present
- APS Division of Astrophysics (DAP) Executive Committee (elected position), 2020 - 2022
- Member, AAS Beatrice M. Tinsley Prize Selection Committee, 2021-2022
- Co-Chair, Scientific Organizing Committee, GMT Community Meeting, 2022
- Scientific Organizing Committee, "Intermediate-Mass Black Holes: New Science from Stellar Evolution to Cosmology", 2022
- UF Physics Departmental Advisory Committee (elected position), 2019 - 2020 & 2022 - 2023
- UF Physics Department Salary Review Committee (elected position), 2021 - 2022
- UF Institute for Fundamental Theory, 2017-Present (Board Member, 2022-Present)
- Founding Member, UF Physics Inclusion, Diversity, & Equity Alliance (IDEA), 2021 - Present

- UF Physics Graduate Recruitment & Admissions Committee, 2021 - Present
- UF Physics Artificial Intelligence Committee, 2021 - Present
- UF Physics Computer Committee, 2022 - Present
- UF Physics Colloquium Committee, 2022 - Present
- Chair, UF Astrophysics Seminar Committee, 2017-2022
- UF Physics Preliminary Exam Committee, 2018-2019, 2021-2022
- Co-Organizer UF Center for Teaching Excellence virtual workshops: "Teaching in STEM Classrooms to Promote Diversity, Inclusion, Equity, & Justice", 2021, 2022
- Panel Member, JWST Review, 2021
- Panel Member, NSF Review, 2020, 2015
- Panel Member/Reviewer, HST Review, 2017, 2018, 2022
- Panel Member, NASA Reviews, 2014, 2016
- Organizer, Theoretical Astrophysics Seminar, UF, 2017 - Present
- Organizer, Better Astronomy for the New Generation (BANG) Seminar, UMD, 2015 - 2017
- Member, Astronomy Department Equity & Inclusion Committee, UMD, 2014 - 2017
- Member, Joint Space-Science Institute Website & Outreach Committee, 2013 - 2015
- Organizer, CTC Theory Lunch Seminar, UMD, Spring/Fall 2013
- Organizer, Graduate Student Research Forum (seminar series), Harvard, 2007 - 2008

Selected Outreach, Diversity, Equity, & Inclusion Activities

- Mentor for UF University Multicultural Mentoring Program, 2018 - 2023
- Co-organizer, UF celebration of U.N. International Day for Women & Girls in Science, 2018 - 2020, 2023
- UF Society of Physics Students "Meet the Professor" event, 2023
- Guest Lecture (virtual), 5th-grade FL classroom, Scientist in Every Florida School, 2021
- Guest Lecture (virtual), MAST @ FIU High School Space Club, 2020
- Research Mentor for UMD GRAD-MAP Winter Workshop, 2016, 2017
- Public Lecture, GRAD-MAP event at Howard Univ., 2016
- Public Lecture, Czechoslovak Society of Arts & Sciences (SVU), Washington DC, 2016
- Public Lecture, Astronomy on Tap, Washington DC, 2016
- Public Lecture, National Capital Astronomers, College Park, MD, 2015
- Public Lectures, UMD Observatory Open House, 2012, 2015
- Public Lecture, AstroTerps Astronomical Society for undergraduates, UMD, 2014
- Keynote Speaker, 20th Annual Science Symposium for Girls Honolulu, HI, 2014
- Public Lecture, GRAD-MAP event at Baltimore City Community College, 2014
- Volunteer, GRAD-MAP winter workshop panel on graduate school preparation, 2014
- Public Lecture, Keene Public Library Astronomy Lecture Series, Keene, NH, 2012
- Academic Careers Panel, UMD, 2012, 2014
- Academic Tutor with Cambridge School Volunteers (tutoring program for Cambridge Public

- Schools), Cambridge Rindge & Latin High School, 2006 - 2010
- Volunteer Teacher, Science Club for Girls (after-school program for K-8 girls in Boston area schools), 2008 - 2011

Scientific Talks

Invited Conference Talks

- Special Session: The Last Kiloparsec: From Dual AGN to Massive Black Hole Binary Mergers, EAS 2023, Krakow, Poland, July 2023
- Isaacson Award Session, APS April Meeting, Minneapolis, MN, April 2023
- 31st Texas Symposium on Relativistic Astrophysics, Prague, Czechia, Sept. 2022
- GMT Community Science Meeting: Black Holes at All Scales, Sedona, AZ, Sept. 2022
- Computational Astrophysics in the ngVLA Era, CCA, New York, NY, June 2022
- Black Holes & Galaxies at the Edge of the Universe, Ringberg invited conference, Mar. 2020
- Panelist, Special Session: New Results From NANOGrav, 235th AAS Meeting, Honolulu, HI, Jan. 2020
- The New Faces of Black Holes (JSI Workshop), Nov. 2019
- LISA Consortium Meeting, Gainesville, FL, Apr. 2019
- PCTS conference: The Accretion Signatures of the Earliest Black Holes in the Universe, Princeton, NJ, Apr. 2019
- BASS Workshop, Gainesville, FL, Feb. 2019
- 2nd COFI Workshop on Gravitational Waves, San Juan, Puerto Rico, Oct. 2018
- AXIS Summer Workshop, Washington, DC, Aug. 2018
- Aspen Center for Physics Colloquium, Aspen, CO, July 2018
- Invited Review, Massive black holes in evolving galaxies: from quasars to quiescence (34th IAP Conference), Paris, France, June 2018
- Special Session: Multi-messenger Observations of IMBHs with LISA, AAS 231st Winter Meeting, Jan. 2018
- Elusive AGN Conference, George Mason Univ., June 2017
- Frank N. Bash Symposium, UT Austin, Oct. 2015
- Boulder Extragalactic Astrophysics Retreat (BEAR) invited workshop, CU Boulder, July 2015
- AREPO-Fest 2, Cambridge, MA, Sep. 2014
- COSPAR 2014, Moscow, Russia, Aug. 2014
- Black Hole (g)astronomy conference, Brindisi, Italy, Sep. 2013
- AREPO-Fest, Heidelberg, Germany, Sep. 2013
- JSI Mini-Symposium, UMD, Oct. 2012
- CSIRO Conference, Queensland, Australia, June 2008

Invited Seminars and Colloquia

- APS Colloquium, CU Boulder, Aug 2023

- UF Physics colloquium (virtual), Sept 2021
- Multi-institutional International AGN Seminar (virtual), May 2021
- Astrophysics Seminar (virtual), University of Leicester, May 2021
- Astrophysics Seminar (virtual), Vanderbilt University, Apr. 2021
- Astrophysical & Cosmological Relativity Seminar (virtual), Albert Einstein Institute, Mar. 2021
- Astrophysics Seminar (virtual), UC Irvine, Mar. 2021
- Physics & Astronomy Dept. Colloquium (virtual), Univ. of Toledo, Feb. 2021
- Galaxy Crawl Seminar (virtual), Univ. of Arizona, Jan. 2021
- Physics Dept. Colloquium (virtual), Southern Methodist Univ., Oct. 2020
- JPL Astrophysics Colloquium (virtual), Oct. 2020
- UF Physics Dept. Colloquium (virtual), Mar. 2020
- CIERA Seminar, Northwestern Univ., Oct. 2019
- US Naval Observatory Colloquium, May 2019
- Physics Dept. Colloquium, Montana State Univ., Dec. 2018
- CRA Seminar, Georgia Tech, Nov. 2017
- Theoretical Astrophysics Seminar, Univ. of Florida, Apr. 2017
- IAS Seminar, Institute for Advanced Study, Mar. 2017
- ITC Colloquium, Harvard Univ., Mar. 2017
- Theoretical Astrophysics Program Colloquium, Univ. of Arizona, Nov. 2016
- Astronomy Dept. Colloquium, UMD, Oct. 2016
- Physics Dept. Colloquium, UW-Milwaukee, Sept. 2016
- Astronomy Dept. Colloquium, UIUC, Apr. 2016
- Physics Dept. Colloquium, Univ. Florida, Feb. 2016
- APS Colloquium, CU Boulder, Feb. 2016
- CCAPP Seminar, OSU, Feb. 2016
- JILA Seminar, CU Boulder, Apr. 2015
- Astronomy Dept. Colloquium, UC Santa Cruz, Dec. 2014
- CAS Seminar, Johns Hopkins, Nov. 2014
- TAC Seminar, UC Berkeley, Nov. 2014
- Astronomy Dept. Colloquium, Univ. of Michigan, Oct. 2014
- WEDGE Seminar, Institute for Astronomy, Hawaii, Feb. 2014
- SPACS Colloquium, George Mason Univ., Mar. 2013
- Astronomy Dept. Colloquium, Yale, Feb. 2013
- NASA GSFC Gravitational Astrophysics Group Branch Lunch, Dec. 2012
- Gravity Seminar, UMD, Dec. 2012
- Special Seminar, Johns Hopkins, Nov. 2012
- Special Seminar, Columbia Univ., Dec. 2011
- Wunch Seminar, Princeton, Nov. 2011
- Extragalactic Seminar, UT Austin, Nov. 2011

- Cosmology Seminar, Yale, Nov. 2011
- CITA Seminar, CITA, Oct. 2011
- CAS Seminar, Johns Hopkins, Oct. 2011
- Theory Lunch Seminar, UMD, Oct. 2011
- TAC Seminar, UC Berkeley, Sept. 2011
- Cosmology Group Meeting Seminar, MPA, June 2011
- Theory Meeting Seminar, MPA, June 2011
- KICP Seminar, Univ. of Chicago, Apr. 2011
- Special Seminar, Northwestern Univ., Apr. 2011
- Monday Lunch Seminar, CfA ITC, Apr. 2011
- Friday Lunch Talk, Carnegie Observatories, Jan. 2011
- Summer Colloquium, CfA, July 2010
- Monday Lunch Seminar, CfA ITC, Nov. 2009

Contributed Conference Talks

- NANOGrav Spring Meeting, Corvallis, OR, March 2023
- Aspen Winter Conference on Extreme Black Holes Conference, Aspen, CO, March 2023
- Intermediate-Mass Black Holes: New Science from Stellar Evolution to Cosmology, San Juan, Puerto Rico, May 2022
- Building Bridges: Towards a Unified Picture of Stellar and Black Hole Binaries Conference, KITP, Santa Barbara, CA, Mar. 2022
- Quasars & Galaxies through Cosmic Time Conference (virtual), Jan. 2022
- NANOGrav Fall Meeting (virtual), Oct. 2020
- 13th International LISA Symposium (virtual), Sept. 2020
- APS April Meeting (virtual), April 2020
- 235th AAS Meeting, Honolulu, HI, Jan. 2020
- Radio/Millimeter Astrophysical Frontiers in the Next Decade, Charlottesville, VA, June 2019
- IllustrisTNG Workshop, MPA, Garching, Germany, Oct. 2018
- 12th International LISA Symposium, Chicago, IL, July 2018
- Generation GW: Diving into Gravitational Waves Conference, St. Thomas, U.S. Virgin Islands, June 2017
- Breaking the Limits: Super-Eddington Accretion onto Compact Objects, Arbatax, Italy, Sept. 2016
- JSI Workshop: The Physics of Supermassive Black Hole Formation and Feedback, Annapolis, MD, Oct. 2015
- 29th IAU General Assembly Focus Meeting: The Gravitational Wave Symphony of Structure Formation, Honolulu, HI, Aug. 2015
- Aspen Winter Conference on Black Holes in Dense Star Clusters, Aspen, CO, Jan. 2015
- 225th AAS Meeting, Seattle, WA, Jan. 2015
- Einstein Fellows Symposia, Cambridge, MA, Oct. 2012, 2013, & 2014
- 223rd AAS Meeting, National Harbor, MD, Jan. 2014

- JSI Workshop: Putting Accretion Theory to the Test, Annapolis, MD, Nov. 2013
- KITP Conference, Santa Barbara, CA, Aug. 2013
- Mind the Gap, Cambridge, UK, July 2013
- 221st AAS Meeting, Long Beach, CA, Jan. 2013
- Binary Black Holes & Dual AGN: A Workshop in Memory of David S. De Young, Tucson, AZ, Nov. 2012
- JSI Mini-Symposium, College Park, MD, Oct. 2012
- Interacting Galaxies and Binary Quasars, Trieste, Italy, Apr. 2012
- 219th AAS Meeting, Austin, TX, Jan. 2012
- Workshop on Single and Double Black Holes in Galaxies, U. of Michigan, Aug. 2011
- Advances in Computational Astrophysics, Cefalù, Italy, June 2011
- 218th AAS Meeting, Boston, MA, May 2011
- 25th Texas Symposium on Relativistic Astrophysics, Heidelberg, Germany, Dec. 2010
- Formation and Evolution of Black Holes, Aspen Center for Physics, Feb. 2010
- Stars and Singularities Workshop, Weizmann Institute, Israel, Dec. 2009
- IMBH Workshop, UC Irvine, Apr. 2009
- Galaxy Workshop, Napa Valley, Feb. 2009