

PROF. FERAH MUNSHI

Department of Physics and Astronomy
George Mason University

Contact Information
web: <https://science.gmu.edu/directory/ferah-munshi>
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Professional Preparation

UNIVERSITY OF WASHINGTON
Ph.D. in Astronomy
Thesis Title: “Star Formation in Cosmological N-body Simulations”
Thesis Advisor: Thomas Quinn

PhD defense: 12/6/2013

UNIVERSITY OF WASHINGTON
M.S. in Astronomy

Sept 2010

UNIVERSITY OF CALIFORNIA, BERKELEY
B.A. in Astrophysics

Dec 2007

Faculty Appointments

ASSISTANT PROFESSOR, GEORGE MASON UNIVERSITY

August 2022–

ASSISTANT PROFESSOR, U. OF OKLAHOMA (OU)

Aug 2018– August 2022

Postdoctoral Appointments

VIDA FELLOW, VANDERBILT UNIVERSITY

Dec 2016– August 2018

VISITING POSTDOCTORAL RESEARCHER, RUTGERS UNIVERSITY

Jan 2016–July 2016

POSTDOCTORAL RESEARCHER, U. OKLAHOMA

Jan 2014–Dec. 2016

Research Interests

Galaxy formation and evolution, dwarf galaxies, low surface brightness galaxies, ultra-diffuse galaxies, dark matter, cosmological simulations

Grants, Awards & Fellowships

*indicates at GMU

- *Simons Emmy Noether Faculty Fellowship 2023-2024
- *PI NSF Astronomy and Astrophysics Research Grants– Comprehensive study of Low Surface Brightness Galaxy Formation– 2024-2027 (\$322,295)
- *PI Hubble Space Telescope (HST) Theory Grant, 2024-2025 (\$96,854)
- *co-I Hubble Space Telescope Theory (HST) Grant, 2024-2025 (\$45,000), Munshi unfunded
- *PI: American Astronomical Society (AAS) Education (EPD) grant 2022, 2023 (\$5,000 each)
- *PI: NSF Phy-2013909- Testing SIDM with Realistic Galaxy Formation Simulations, 2020-2024 (\$360,000)
- Vanderbilt Initiative for Data Intensive Astrophysics (VIDA) Postdoctoral Fellowship, 2017-2018 (\$80,000/year)

- Co-I Hubble Space Telescope (HST) Theory grant, 2016-2017 (\$84,000), Munshi unfunded
- co-PI NSF Physics REU Grant, 2014-2015 (\$267,000) U. of Oklahoma (OU)
- American Astronomical Society (AAS) International Travel Grant, 2015 (\$1,200)
- American Astronomical Society (AAS) Doxsey Thesis Prize, 2014 (\$1,000)
- PI Washington Space Grant Dissertation Fellowship, 2013 (\$5,000)
- NSF Graduate Research Fellowship, honorable mention 2008
- ARCS Graduate Fellowship, 2008-2010, (\$15,000)
- American Astronomical Society (AAS) Chambliss Medal, 2007

Computational Awards

* indicates at GMU

- *Co-PI Leadership Resource Allocation (LRAC), NSF ACCESS Supercomputer Network, April 2025 2,880,000 Node Hours, Frontera
- * Co-PI for \$197,589.15 in CPU hour allocations through NSF's ACCESS Supercomputer Network
- *Co-PI: Allocation on NASA's Pleiades Supercomputer 5,852,000 core hours
- Co-PI: Leadership Resource Allocation (LRAC); NSF XSEDE Supercomputing Network-175 Million core-hours
- Collaborator: Leadership Resource Allocation (LRAC), NSF XSEDE Supercomputing Network 126 Million CPU hours

Selected Talks (invited)

INVITED TALK: MARVEL-OUS DARK MATTER CONSTRAINTS USING DWARF GALAXIES
Banff International Research Station August 2025

INVITED TALK: MARVEL-OUS DARK MATTER CONSTRAINTS USING DWARF GALAXIES
Valencia SIDM Meeting June 2025

INVITED SEMINAR: CONSTRAINING DARK MATTER AT THE LOWEST MASSES
UMD College Park March 2024

INVITED SEMINAR: CONSTRAINING DARK MATTER AT THE LOWEST MASSES
Virginia Tech March 2024

COLLOQUIUM: CONSTRAINING DARK MATTER AT THE LOWEST MASSES
U Waterloo November 2023

COSMOLOGY SEMINAR: CONSTRAINING DARK MATTER AT THE LOWEST MASSES
Perimeter Institute September 2023

COLLOQUIUM: CONSTRAINING DARK MATTER AT THE LOWEST MASSES
McMaster University October 2023

KEYNOTE SPEAKER: CONSTRAINING DARK MATTER AT THE LOWEST MASSES
Flatiron Institute, Galactic Frontiers I July 2023

COLLOQUIUM: CONSTRAINING DARK MATTER AT THE LOWEST MASSES
US Naval Observatory November 2022

COLLOQUIUM: CONSTRAINING DARK MATTER AT THE LOWEST MASSES
University of Arizona, Theoretical Astrophysics Colloquium March 2022

COLLOQUIUM: WHAT'S THE (DARK) MATTER WITH DWARF GALAXIES?
Wayne State University, March 2022

COLLOQUIUM: WHAT'S THE (DARK) MATTER WITH DWARF GALAXIES?
University of Texas, El Paso, Feb 2022

COLLOQUIUM: WHAT'S THE (DARK) MATTER WITH DWARF GALAXIES?
University of Minnesota, Duluth, Feb 2022

COLLOQUIUM: WHAT'S THE (DARK) MATTER WITH DWARF GALAXIES?
George Mason University, Jan 2022

COLLOQUIUM: WHAT'S THE (DARK) MATTER WITH DWARF GALAXIES?
Wellesley College, Dec. 2021

COLLOQUIUM: CAN WE CONSTRAIN GALAXY FORMATION AT THE LOWEST MASSES?
Pabna University of Science & Technology (virtual) June 2021

SEMINAR: CAN WE CONSTRAIN GALAXY FORMATION AT THE LOWEST MASSES?
University College London (UCL) (virtual) May 2021

COLLOQUIUM: CAN WE CONSTRAIN GALAXY FORMATION AT THE LOWEST MASSES?
Washington University, St. Louis (virtual) April 2021

INVITED TALK: CAN WE CONSTRAIN GALAXY FORMATION AT THE LOWEST MASSES?
Aspen Center for Physics: A Rainbow of Dark Sectors; March 2021 (virtual)

COLLOQUIUM: WHAT'S THE (DARK) MATTER WITH DWARF GALAXIES?
USC; March 2021 (virtual)

COLLOQUIUM: WHAT'S THE (DARK) MATTER WITH DWARF GALAXIES?
Utah Valley University; February 2021 (virtual)

INVITED SEMINAR: WHAT'S THE (DARK) MATTER WITH DWARF GALAXIES?
University of Tampa; February 2021 (virtual)

KEYNOTE SPEAKER: THE LOW MASS EXTREMES OF GALAXY FORMATION
Virtual Conference: NBSE, January 2021

INVITED SEMINAR: HEROICALLY SIMULATING THE FORMATION AND EVOLUTION OF UFDs
University of Arizona: Galaxy Crawl; September 2020 (virtual)

INVITED SEMINAR: WHAT'S THE (DARK) MATTER WITH DWARF GALAXIES?
University of Massachusetts, Amherst; March 2020

COLLOQUIUM: WHAT'S THE (DARK) MATTER WITH DWARF GALAXIES?
Georgia State University; March 2020

COLLOQUIUM: WHAT'S THE (DARK) MATTER WITH DWARF GALAXIES?
Yale University; Sept. 2019

WORKSHOP: WHAT'S THE (DARK) MATTER WITH DWARF GALAXIES?
Aspen Center for Physics; June 2019

SEMINAR: THE STATISTICS OF THE LOW SURFACE BRIGHTNESS UNIVERSE
Ohio State University; March 2019

COLLOQUIUM: WHAT'S THE (DARK) MATTER WITH DWARF GALAXIES?
Iowa State University; Feb. 2019

INVITED WORKSHOP: THE STATISTICS OF THE LOW SURFACE BRIGHTNESS UNIVERSE
FROM ROMULUS
Lorentz Center, Leiden; August 2018

COLLOQUIUM: THE MARVELOUS DWARFS MEET THE JUSTICE LEAGUE: SIMULATIONS
OF DWARF GALAXIES
Wichita State University; April 2018

TAPIR SEMINAR: FEEDBACK AND ITS ROLE IN SHAPING (DWARF) GALAXIES
Caltech, April 2017

SEMINAR: ALI BABA & THE 40 THIEVES: SIMULATIONS OF DWARF GALAXIES
Rutgers, March 2016

SEMINAR: THE 40 THIEVES: A HIGH RESOLUTION SIMULATION OF DWARF GALAXIES
Harvard/CfA, Feb 2015

Teaching Highlights***indicates at GMU**

*Spring 2025: Intro Astro, Graduate Galaxies & Cosmology
 *Fall 2024: Graduate Stellar Astrophysics
 *Spring 2023: Graduate Galaxies & Cosmology
 *Fall 2022: Introduction to Astronomy (online, asynchronous), Colloquium Seminar
 Fall 2021: Stellar Structure and Evolution (1st year grads, senior undergrads)
 Spring 2021/2022: Introduction to Research; OU
 3 semesters: Introduction to Astronomy for non-majors (with and without laboratory); OU
 Instructor for Pre-MAP; UW
 TA for Astro 150, Astro 101; UW

**Review Panels
 & Telescope
 Allocation
 Committees
 (TAC)**

Reviewer for NASA and NSF including Astrophysics Theory, Astrophysics Data Analysis Program, Hubble Postdoctoral Fellowship and Astronomy and Astrophysics Grants programs
 Hubble Space Telescope Reviewer cycles 24, 26, 30

Professional Service***indicates at GMU**

*Reviewer for the Astrophysical Journal, Monthly Notices of the Royal Astronomical Society
 *American Astronomical Society Member
 *American Physical Society Member
 *GMU COS STEM Teaching Fellow (Summer 2025)
 *GMU COS Faculty Governance: Faculty Secretary (2024-2025), Faculty Chair Pro-Tem (2025-2026)
 *GMU COS Dean's Search (2024-2025)
 *GMU COS AJEDI Advisory Committee Subcommittee Chair (2023-)
 *Women Leaders In Stem (WLIS) Steering Committee (2022-)
 *Faculty Mentor/Advisor: Spectrum (2022-2023)
 *GMU Dept of Phys/Astro Colloquium Com. Chair (2022-2023)
 *GMU Dept of Phys/Astro Recruitment and Retention Com. (2023-)
 U. Oklahoma Committee on Data Science Certificate Programs
 U. Oklahoma Physics Bridge program subcommittee
 Location Organizing Comm.: Conference for Undergraduate Women in Physics 2020 conference
 Location Organizing Comm.: Particle Physics (PPC) 2020 conference (postponed to 2021, virtual)
 U. Oklahoma Inclusive graduate admissions committee
 Virtual Organizing Comm.: Nbody Shop Conference Jan 2021
 U. Oklahoma Faculty Mentor: Women* in Physics 2018-2020
 White Paper Leader for Snowmass 2020 Cosmic Frontier: numerical simulations

References

A. Brooks (Professor, Rutgers, abrooks@physics.rutgers.edu, 848-445-8877),
 T. Quinn (Professor, UW, tq@astro.washington.edu, 206-685-9009),

K. Holley-Bockelmann (Professor, Vanderbilt, k.holley@vanderbilt.edu, 615-343-2153),
 P. Natarajan (Professor, Yale University, priyamvada.natarajan@yale.edu, 203-436-4833)

Grad Students *Advised*/ On PhD Committee

Kumara Culbreath (PhD, Vanderbilt, committee member)
 Ajeet Gary (PhD, GMU, committee member)
Blake Vogel (PhD, GMU, in progress)
Anna Engelhardt (PhD, GMU, in progress)
Maria Carrillo (PhD, GMU, in progress)
Bryan Boroski (PhD, GMU, in progress)
BM Anisuzzaman (PhD, GMU, 1 year)
Kyle Arktorp (MS, GMU, 2024)
Marco Brizzolara (GMU, MS, 1 semester)
Brendan Power (GMU, MS, 1 semester)
Jessye Gassel (GMU, PhD, 3 semesters)
Amber Roepe-Grier (GMU, PhD, 2 semesters)
Devin, Bush (MS, OU 2020)
Jordan Van Nest (PhD, OU, 2023)
Bianca Azartash-Namin (MS, OU, 2024)
Serena Sligh (MS, OU 2020)
 Elizabeth Ellithorpe (MS, OU 2020)
 Kalee Anderson (PhD, OU, committee member)
 Brett Bonine (MS, OU 2020)
 Renae Wall (PhD, OU, committee member)
 Hunter Campbell (PhD, OU, committee member)
 Hora Mishra (PhD, OU, committee member)
 Hyeunsop (Joseph) Choi (PhD, OU, committee member)
 Robert Deal (PhD, OU, committee member)
 Anna Wright (PhD, Rutgers 2020, committee member)
 Elaad Applebaum (PhD, Rutgers 2021, committee member)
 Antonio Porras (MS, Fisk University 2018, PhD Vanderbilt 2023, NSF postdoc Yale U.)
 Thorold Thonrud (MSc, U Victoria, 1/2019, committee member)
 Francis Macinnis (MS, OU, 2018, committee member)

Undergrad Students Advised

John Wells (GMU)
 Omar Aljebrin (GMU)
 Allie Molle (GMU)
 Emily Thorne (GMU)
 Claire Jones (Haverford, GMU summer funding)
 Jahnvie Joshie (Cornell, GMU summer funding)
 Nyela Etzioni (Louisiana, GMU summer funding)
 Raelin Lane (OU, Electrical Engineering)
 Alexi Musick (OU; now U.Kansas PhD program)
 Christopher Foley (OU)
 Claire Riggs (OU, now Rutgers PhD program)
 Amy Griffin (OU)
 Kobi Ederi (OU)
 Ryan Westerdahl (UW)

Danny Weller (OU REU)
 Sydney Duncan (OU REU)
 Anahi Favela (OU REU)
 Anna Engelhardt (OU REU)
 Oge Okoronwo (OU, now UW Astro PhD program)
 Ryan Abbott (OU)
 Bianca Azartash (OU)

Under-review Publications:

1. Cruz, A.; Brooks, A.M.; Lisanti, M.; Peter, A.; Quinn, T.; Tremmel, M.; Munshi, F.; Keller, B.; Wadsley, J. “Galaxy size and rotation curve diversity in Λ CDM”, Under-Review ApJ
2. Wright, A.; Brooks, A.M.; Tremmel, M.; Young, J.E.; Munshi, F.; Quinn, T.; “The Merger-Driven Formation of Classical Low Surface Brightness Galaxies in Romulus25”, Under-Review ApJ
3. Baumschlager, B.; Shen, S.; Wadsley, J.; Keller, B.; Wissing, R.; Munshi, F. “The 7 Dwarfs Illuminated: The Impact of Radiation on the Formation and Evolution of Dwarf Galaxies”, Under-Review A&A

Publication list

*published as faculty at GMU

- Number of refereed publications: 30
 - Refereed h-index: 23 [NASA ADS]
 - Refereed citations: 3,455 total; 393 as first author
31. *Pathak, D., Christensen, C. R., Brooks, A. M., Munshi, F., Wright, A. C., and Carter, C., “Survivors and Zombies: The Quenching and Disruption of Satellites Around Milky Way Analogs”, The Astrophysical Journal, vol. 989, no. 2, Art. no. 178, IOP, 2025. doi:10.3847/1538-4357/ade94.
 30. *de los Reyes, Mithi A.C.; Asali, Yasmeen; Wechsler, Risa H.; Geha, Marla; Mao, Yao-Yuan; Kado-Fong, Erin; Pucha, Ragadeepika; Grant, William; Gandhi, Pratik J.; Manwadkar, Viraj; Engelhardt, Anna; Munshi, Ferah; Wang, Yunchong “Stellar Mass Calibrations for Local Low-mass Galaxies”, The Astrophysical Journal, vol. 989, no. 1, Art. no. 91, IOP, 2025. doi:10.3847/1538-4357/ade4c5.
 29. *Bellovary, J., Luo, Y., Quinn, T. R., Munshi, F., Tremmel, M., and Wadsley, J., “Intermediate Mass Ratio Inspirals in Milky Way Galaxies”, The Astrophysical Journal, vol. 986, no. 2, Art. no. 208, IOP, 2025. doi:10.3847/1538-4357/add9a0.
 28. *Keith, B., Munshi, F., Brooks, A.M., Van Nest, J., Engelhardt, A., Cruz, A., Keller, B., Quinn, T., Wadsley, J. “A MARVEL-ous Study of How Well Galaxy Shapes Reflect Dark Matter Halo Shapes in Cold Dark Matter Simulations”, The Astrophysical Journal, vol. 986, no. 2, Art. no. 138, IOP, 2025. doi:10.3847/1538-4357/add40d.

27. *Riggs, C. L., Brooks, Alyson M.; Munshi, Ferah; Christensen, Charlotte R.; Cohen, Roger E.; Quinn, Thomas R.; Wadsley, James; “Testable Predictions of Outside-in Age Gradients in Dwarf Galaxies of All Types”, *The Astrophysical Journal*, vol. 977, no. 1, Art. no. 20, IOP, 2024. doi:10.3847/1538-4357/ad8b1e.
26. *Azartash-Namin, B., Engelhardt, Anna; Munshi, Ferah; Keller, B. W.; Brooks, Alyson M.; Van Nest, Jordan; Christensen, Charlotte R.; Quinn, Tom; Wadsley, James; “Bursting with Feedback: The Relationship between Feedback Model and Bursty Star Formation Histories in Dwarf Galaxies”, *The Astrophysical Journal*, vol. 970, no. 1, Art. no. 40, IOP, 2024. doi:10.3847/1538-4357/ad49a5.
25. *Christensen, C. R., Brooks, Alyson M.; Munshi, Ferah; Riggs, Claire; Van Nest, Jordan; Akins, Hollis; Quinn, Thomas R.; Chamberland, Lucas; “Environment Matters: Predicted Differences in the Stellar Mass–Halo Mass Relation and History of Star Formation for Dwarf Galaxies”, *The Astrophysical Journal*, vol. 961, no. 2, Art. no. 236, IOP, 2024. doi:10.3847/1538-4357/ad0c5a.
24. *Van Nest, J., Munshi, F., Christensen, C., Brooks, A. M., Tremmel, M., and Quinn, T. R., “The Role of Mass and Environment on Satellite Distributions around Milky Way Analogs in the ROMULUS25 Simulation”, *The Astrophysical Journal*, vol. 956, no. 2, Art. no. 96, IOP, 2023. doi:10.3847/1538-4357/acf861.
23. *Keller, B. W., Munshi, F., Trebitsch, M., and Tremmel, M., “Can Cosmological Simulations Reproduce the Spectroscopically Confirmed Galaxies Seen at $z \sim 10$?”, *The Astrophysical Journal*, vol. 943, no. 2, Art. no. L28, IOP, 2023. doi:10.3847/2041-8213/acb148.
22. *Taibi, S., Leaman, R.; Brooks, A.; Riggs, C.; Munshi, F.; Revaz, Y.; Jablonka, P.; “Stellar metallicity gradients of Local Group dwarf galaxies”, *Astronomy and Astrophysics*, vol. 665, Art. no. A92, EDP, 2022. doi:10.1051/0004-6361/202243508.
21. *Van Nest, J. D., Munshi, F.; Wright, A. C.; Tremmel, M.; Brooks, A. M.; Nagai, D.; Quinn, T.; “What’s in a Name? Quantifying the Interplay between the Definition, Orientation, and Shape of Ultra-diffuse Galaxies Using the Romulus Simulations”, *The Astrophysical Journal*, vol. 926, no. 1, Art. no. 92, IOP, 2022. doi:10.3847/1538-4357/ac43b7.
20. Munshi, F., Brooks, A. M., Applebaum, E., Christensen, C. R., Quinn, T., and Sligh, S., “Quantifying Scatter in Galaxy Formation at the Lowest Masses”, *The Astrophysical Journal*, vol. 923, no. 1, Art. no. 35, IOP, 2021. doi:10.3847/1538-4357/ac0db6.
19. Kado-Fong, E., Petrescu, Mihai; Mohammad, Majid; Greco, Johnny; Greene, Jenny E.; Adams, Elizabeth A. K.; Huang, Song; Leisman, Lukas; Munshi, Ferah; Tanoglidis, Dimitrios; Van Nest, Jordan; “The Intrinsic Shapes of Low Surface Brightness Galaxies (LSBGs): A Discriminant of LSBG Galaxy Formation Mechanisms”, *The Astrophysical Journal*, vol. 920, no. 2, Art. no. 72, IOP, 2021. doi:10.3847/1538-4357/ac15f0.
18. Bellovary, J. M., Hayoune, Sarra; Chafra, Katheryn; Vincent, Donovan; Brooks, Alyson; Christensen, Charlotte R.; Munshi, Ferah; Tremmel, Michael; Quinn, Thomas R.; Van Nest, Jordan; Sligh, Serena K.; Luzuriaga, Michelle; “The origins of off-centre massive black holes in dwarf galaxies”, *Monthly Notices of the Royal Astronomical Society*, vol. 505, no. 4, OUP, pp. 5129–5141, 2021. doi:10.1093/mnras/stab1665.
17. Wright, A. C., Michael; Brooks, Alyson M.; Munshi, Ferah; Nagai, Daisuke; Sharma, Ray S.; Quinn, Thomas R.; “The formation of isolated ultradiffuse galaxies in ROMULUS25”, *Monthly Notices of the Royal Astronomical Society*, vol. 502, no. 4, OUP, pp. 5370–5389, 2021. doi:10.1093/mnras/stab081.
16. Carleton, T., Guo, Y., Munshi, F., Tremmel, M., and Wright, A., “An excess of globular clusters in Ultra-Diffuse Galaxies formed through tidal heating”, *Monthly Notices of the Royal Astronomical Society*, vol. 502, no. 1, OUP, pp. 398–406, 2021. doi:10.1093/mnras/stab031.

15. Akins, H. B.; Christensen, Charlotte R.; Brooks, Alyson M.; Munshi, Ferah; Applebaum, Elaad; Engelhardt, Anna; Chamberland, Lucas “Quenching Timescales of Dwarf Satellites around Milky Way-mass Hosts”, *The Astrophysical Journal*, vol. 909, no. 2, Art. no. 139, IOP, 2021. doi:10.3847/1538-4357/abe2ab.
14. Cruz, A., Pontzen, A.; Volonteri, M.; Quinn, T. R.; Tremmel, M.; Brooks, A. M.; Sanchez, N. N.; Munshi, F.; Di Cintio, A.; “Self-interacting dark matter and the delay of supermassive black hole growth”, *Monthly Notices of the Royal Astronomical Society*, vol. 500, no. 2, OUP, pp. 2177–2187, 2021. doi:10.1093/mnras/staa3389.
13. Applebaum, E.; Brooks, Alyson M.; Christensen, Charlotte R.; Munshi, Ferah; Quinn, Thomas R.; Shen, Sijing; Tremmel, Michael “Ultrafaint Dwarfs in a Milky Way Context: Introducing the Mint Condition DC Justice League Simulations”, *The Astrophysical Journal*, vol. 906, no. 2, Art. no. 96, IOP, 2021. doi:10.3847/1538-4357/abcafa.
12. Tremmel, M., Wright, A. C., Brooks, A. M., Munshi, F., Nagai, D., and Quinn, T. R., “The formation of ultradiffuse galaxies in the RomulusC galaxy cluster simulation”, *Monthly Notices of the Royal Astronomical Society*, vol. 497, no. 3, OUP, pp. 2786–2810, 2020. doi:10.1093/mnras/staa2015.
11. Bruton, S. T., Dai, X., Guerras, E., and Munshi, F. A., “Deficit of luminous and normal red galaxies in cosmic voids”, *Monthly Notices of the Royal Astronomical Society*, vol. 491, no. 2, OUP, pp. 2496–2505, 2020. doi:10.1093/mnras/stz2876.
10. Munshi, F., Brooks, Alyson M.; Christensen, Charlotte; Applebaum, Elaad; Holley-Bockelmann, Kelly; Quinn, Thomas R.; Wadsley, James; “Dancing in the Dark: Uncertainty in Ultrafaint Dwarf Galaxy Predictions from Cosmological Simulations”, *The Astrophysical Journal*, vol. 874, no. 1, Art. no. 40, IOP, 2019. doi:10.3847/1538-4357/ab0085.
9. Bellovary, J. M., Cleary, Colleen E.; Munshi, Ferah; Tremmel, Michael; Christensen, Charlotte R.; Brooks, Alyson; Quinn, Thomas R.; “Multimessenger signatures of massive black holes in dwarf galaxies”, *Monthly Notices of the Royal Astronomical Society*, vol. 482, no. 3, OUP, pp. 2913–2923, 2019. doi:10.1093/mnras/sty2842.
8. Christensen, C. R., Davé, Romeel; Governato, Fabio; Pontzen, Andrew; Brooks, Alyson; Munshi, Ferah; Quinn, Thomas; Wadsley, James; “In-N-Out: The Gas Cycle from Dwarfs to Spiral Galaxies”, *The Astrophysical Journal*, vol. 824, no. 1, Art. no. 57, IOP, 2016. doi:10.3847/0004-637X/824/1/57.
7. Bellovary, J. M., ; Holley-Bockelmann, Kelly; Gültekin, Kayhan; Christensen, Charlotte R.; Governato, Fabio; Brooks, Alyson M.; Loebman, Sarah; Munshi, Ferah; “Effects of inclination on measuring velocity dispersion and implications for black holes”, *Monthly Notices of the Royal Astronomical Society*, vol. 445, no. 3, OUP, pp. 2667–2676, 2014. doi:10.1093/mnras/stu1958.
6. Munshi, F., Christensen, Charlotte; Quinn, Thomas R.; Governato, Fabio; Wadsley, James; Loebman, Sarah; Shen, Sijing; “The Pressure of the Star-forming Interstellar Medium in Cosmological Simulations”, *The Astrophysical Journal*, vol. 781, no. 1, Art. no. L14, IOP, 2014. doi:10.1088/2041-8205/781/1/L14.
5. Munshi, F., “Star formation in N-body + SPH simulations”, PhDT, University of Washington, Seattle, 2013.
4. Munshi, F.; Governato, F.; Brooks, A. M.; Christensen, C.; Shen, S.; Loebman, S.; Moster, B.; Quinn, T.; Wadsley, J.; “Reproducing the Stellar Mass/Halo Mass Relation in Simulated Galaxies: Theory versus Observational Estimates”, *The Astrophysical Journal*, vol. 766, no. 1, Art. no. 56, IOP, 2013. doi:10.1088/0004-637X/766/1/56.
3. Davenport, J. R. A.; Becker, Andrew C.; West, Andrew A.; Bochanski, John J.; Hawley, Suzanne L.; Holtzman, Jon; Gunning, Heather C.; Hilton, Eric J.; Munshi, Ferah A.; Albright, Meagan; “The Very Short Period M Dwarf Binary SDSS J001641-000925”, *The Astrophysical Journal*, vol. 764, no. 1, Art. no. 62, IOP, 2013. doi:10.1088/0004-637X/764/1/62.

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