

Yasmeen Asali

📍 46 Hillhouse Avenue, Yale University, New Haven, CT

✉ yasmeen.asali@yale.edu
🆔 0000-0002-8320-2198

🌐 yasmeen-asali
🔗 yasmeenasali

🌐 yasmeenasali.com
🐦 yasmeenasali

RESEARCH INTERESTS

Low-mass galaxy formation and evolution, star formation, stellar-halo mass relation

EDUCATION

Yale University , New Haven, CT Ph.D. in Astronomy M.S., M.Phil. in Astronomy (2022)	2020 - Present
Columbia University , New York, NY B.A. in Astrophysics Departmental Honors in Physics Dean's List Spring 2017, Fall 2017, Spring 2018, Spring 2019	2016 - 2020

RESEARCH APPOINTMENTS

Graduate Researcher <i>Yale Astronomy Department</i> Thesis Advisor: Marla Geha	September 2020 - Present <i>New Haven, CT, USA</i>
Undergraduate Researcher <i>Columbia Astronomy Department</i> Advisors: Szabi Marka, Zsuzsa Marka	September 2017 - August 2020 <i>New York, NY, USA</i>
Summer Undergraduate Researcher <i>Dutch National Institute for Subatomic Physics (Nikhef)</i> University of Florida's International REU Program in Gravitational Physics Advisor: Chris Van Den Broeck	June 2019 - April 2020 <i>Amsterdam, The Netherlands</i>
Summer Undergraduate Researcher <i>Instituto de Astrofísica, Pontificia Universidad Católica de Chile</i> Advisors: Germán Gómez-Vargas, Andreas Reisenegger	June 2018 - August 2018 <i>Santiago, Chile</i>

PUBLICATIONS

First-author:

1. **Y. Asali**, P. T. H. Pang, A. Samajdar, and C. Van Den Broeck. Probing resonant excitations in exotic compact objects via gravitational waves. *Phys. Rev. D*, 102(2):024016, July 2020

Second- or third-author:

1. A. G. Sullivan, **Y. Asali**, Z. Márka, D. Sigg, S. Countryman, I. Bartos, K. Kawabe, M. D. Pirello, M. Thomas, T. J. Shaffer, K. Thorne, M. Laxen, J. Betzwieser, K. Izumi, R. Bork, A. Ivanov, D. Barker, C. Adams, F. Clara, M. Factourovich, and S. Márka. Timing system of LIGO discoveries. *Phys. Rev. D*, 108(2):022003, July 2023

Other co-author:

1. R. Abbasi and IceCube Collaboration (incl. **Y. Asali**). IceCube Search for Neutrinos Coincident with Gravitational Wave Events from LIGO/Virgo Run O3. *ApJ*, 944(1):80, Feb. 2023

Non-Refereed Publications:

2. A. Polzin, **Y. Asali**, S. Bhimani, M. Brady, M. C. Chen, L. DeMarchi, M. Gurevich, E. Lichko, E. Loudon, J. Malewicz, S. Pagan, M. Rice, Z. Shen, E. Simon, C. Stauffer, J. Luna Zagorac, K. Auchettl, K. Breivik, H.-W. Chen, D. Coppejans, S. Kolwa, R. Margutti, P. Natarajan, E. Nelson, K. L. Page, S. Toonen, K. E. Whitaker, and I. Zhuravleva. Astronomy as a Field: A Guide for Aspiring Astrophysicists. *arXiv e-prints*, page arXiv:2312.04041, Dec. 2023
1. **Y. Asali**, K. Gerbig, A. Ghosh, C. Lindsay, Z. Shen, and M. Geha. A Standardized Framework for Collecting Graduate Student Input in Faculty Searches. *Bulletin of the AAS*, 54(1), December 2022. <https://baas.aas.org/pub/2022i091>

Included on the following author lists:

LIGO Scientific Collaboration Author List

- incl. 45 publications
- approved Oct. 2019 for Feb. 2020 revision, removed Dec. 2022

LIGO O3 Detector Author List

- incl. 12 publications
- approved Oct. 2019 for Dec. 2019 revision, removed Dec. 2022

PRESENTATIONS

Research Talks:

CCA Galactic Frontiers: Dwarf Galaxies in the Local Volume and Beyond, July 2023. Star Formation Histories of SAGA Satellites

Research Poster Presentations:

APS Conference for Undergraduate Women in Physics, Yale University, Jan. 2020
235th Meeting of the American Astronomical Society, Honolulu, HI, Jan. 2020
Conference for Undergraduate Women in Astronomy, West Virginia University, Nov. 2019
Undergraduate Research Showcase, Columbia University, Oct. 2019
Astrofest, Columbia University, Sept. 2019 (2nd Place Prize)
233rd Meeting of the American Astronomical Society, Seattle, WA, Jan. 2019
Astrofest, Columbia University, Sept. 2018

Poster Presentations:

5. D. Veske, IceCube Collaboration, Z. Marka, S. Countryman, **Y. Asali**, and A. Silva Oliveira. Multi-messenger searches via IceCube's high-energy neutrinos and gravitational-wave detections of LIGO/Virgo. In *37th International Cosmic Ray Conference*, page 950, Mar. 2022
4. A. Beck, **Y. Asali**, E. Cully, Z. Marka, and GECO (Columbia Experimental Gravity Group) Team. Probing the Statistical Relationship Between Binary Black Hole Mergers and Active Galactic Nuclei. In *APS April Meeting Abstracts*, volume 2022 of *APS Meeting Abstracts*, page F01.009, Apr. 2022
3. D. Veske, S. Countryman, **Y. Asali**, Z. Marka, I. Bartos, and S. Marka. Searching for joint gravitational-wave and high energy neutrino events with LLAMA. In *APS April Meeting Abstracts*, volume 2021 of *APS Meeting Abstracts*, page B09.007, Jan. 2021
2. **Y. Asali**, P. Pang, and C. Van Den Broeck. Probing Resonant Modes in Exotic Compact Objects via Gravitational Waves. In *American Astronomical Society Meeting Abstracts #235*, volume 235 of *American Astronomical Society Meeting Abstracts*, page 107.05, Jan. 2020

1. **Y. Asali**, G. Gomez-Vargas, and A. Reisenegger. Dark Matter Annihilation in the Galactic Center. In *American Astronomical Society Meeting Abstracts #233*, volume 233 of *American Astronomical Society Meeting Abstracts*, page 350.02, Jan. 2019

TEACHING EXPERIENCE

Yale Poorvu Center for Teaching and Learning, <i>McDougal Graduate Fellow</i>	May 2022 - Present
Warrior Scholar Project, <i>Research Project Leader</i>	June 2023
La Serena School for Data Science, <i>Teaching Assistant</i>	August 2021, August 2022
Reading Team Math, <i>Teacher and Group Leader</i>	September 2017 - June 2021
Yale University, <i>Teaching Fellow</i>	
Research Methods in Astrophysics, Astronomy Department	Fall 2022
Current Research in Astrophysics, Astronomy Department	Fall 2021
Frontiers & Controversy in Astrophysics, Astronomy Department	Spring 2021
Introduction to General Relativity and Black Holes, Astronomy Department	Fall 2020
Columbia University, <i>Teaching Assistant</i>	
Theories of the Universe, Astronomy Department	Spring 2020
Weapons of Mass Destruction, Physics Department	Spring 2018, Spring 2019
Stars and Atoms, Astronomy Department	Fall 2018

AWARDS, SCHOLARSHIPS AND GRANTS

Teaching Innovation Project Grant	2023
Flipped Science Fair, First Place Presenter	2023
Dean's Fund for Seminars and Colloquia, Yale Graduate School of Arts and Sciences	2023
GPPD Career Grant, POD Network	2022
Columbia University Office of Academic Affairs Conference Fund	2018, 2020
ACM-W Scholarship for Women in Computing	2019
Sigma Xi Grant in Aid of Research	2019
Columbia University Senior Thesis Research Fund	2018
Columbia University C.S. Wu Fund for Women in Physics	2018

OUTREACH

Invited Public Outreach Talks:

Yale Pathways Summer Program, July 2022. Exploring the Milky Way Galaxy and its Satellites
Astronomy on Tap NYC, November 2021. Cosmic Happy Hour: Exotic Compact Objects
Columbia Center for Undergraduate Global Engagement, November 2019. Global Spotlight Panel Discussion: So You Think You Can Research Abroad
Columbia University Public Outreach Lecture for Skt. Josef's School, April 2019. Gravitational Wave Astrophysics with LIGO

Open Labs at Yale, <i>Scientist Volunteer</i>	February 2023 - Present
AAS Astronomy Ambassadors Program, <i>Outreach Ambassador</i>	January 2022 - Present
Skype a Scientist, <i>Scientist Volunteer</i>	March 2020 - Present
Letters to a Pre-Scientist, <i>Scientist Volunteer</i>	August 2019 - June 2021
SCiMMA Education and Public Outreach, <i>Contributor</i>	April 2020 - September 2020
Columbia BlueShift Astronomy Society, <i>President and Senior Advisor</i>	January 2018 - May 2020
Columbia Astronomy Public Outreach, <i>Volunteer</i>	February 2017 - May 2020

MENTORING

Research Advising:

Meredith Stone , UMass Amherst (undergraduate, Dorrit Hoffleit Scholar)	June 2021 - August 2021
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Amanda Beck, Columbia University (undergraduate)
Ana Carolina Oliveira, Columbia University (undergraduate)

September 2019 - May 2021
May 2020 - September 2020

Yale Astro Sibs Program, *Grad Student Mentor & Head Coordinator*
Yale Graduate Affiliate for Ezra Stiles College, *Graduate Affiliate*

September 2020 - Present
September 2022 - Present

AWARDED OBSERVING PROPOSALS

Palomar Observatory (CWI) - 7 nights awarded (PI) <i>The Mass Functions of Satellites around Milky Way Analogs</i>	Yale 2024A
Perkins Telescope Observatory (PRISM) - 4 nights awarded (CoI) <i>Star Formation in Dwarf Galaxies as a Function of Environment</i>	BU/PTO 2023B
Palomar Observatory (CWI) - 6 nights awarded (PI; Highest Ranked in 2023B Cycle) <i>The Mass Functions of Satellites around Milky Way Analogs</i>	Yale 2023B

OBSERVING EXPERIENCE

Hale Telescope (5.1 m), CWI - Palomar Observatory, California	16 nights
Hale Telescope (5.1 m), DBSP - Palomar Observatory, California	17 nights
Anglo-Australian Telescope (3.9 m), 2dF - Siding Spring Observatory, Coonabarabran	3 nights
Hiltner Telescope (2.4 m) - MDM Observatory, Arizona	4 nights

SERVICE

Professional:

Yale Astronomy Student Council, <i>Elected Representative</i>	2021 - Present
Yale Astronomy Committee on Diversity and Climate, <i>Steering Committee</i>	2022 - Present
Yale Data Science X Astronomy & Astrophysics Seminar, <i>Organizer</i>	2021 - Present
Yale GSAS Orientation, <i>Community Values Orientation Leader</i>	2023
Physics Department Faculty Hiring Committee, <i>Graduate Representative</i>	2023
Columbia Alumni Representative Committee, <i>Prospective Student Interviewer</i>	2021 - 2023
AAS 237 Chambliss Poster Competition, <i>Judge</i>	2021

Community:

New Haven Science Fair, <i>Judge</i>	May 2023
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MEDIA COVERAGE

A Grad Student Seat at the Faculty Hiring Table , astrobites	January 2023
Senior Spotlight: Yasmeen Asali , the Blue and White Magazine	May 2020

PROFESSIONAL SOCIETIES

Astronomical Society of the Pacific (ASP)	2022 - Present
American Astronomical Society (AAS)	2019 - Present
American Physical Society (APS)	2019 - Present
POD Network	2022 - 2023
Sigma Xi: The Scientific Research Honor Society	2019 - 2021
Association for Computing Machinery	2020 - 2021