

Yasmeen Asali

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EDUCATION

Yale University, New Haven, CT 2020 - Present
Ph.D. in Astronomy
M.S., M.Phil. in Astronomy (2022)

Columbia University, New York, NY 2016 - 2020
B.A. in Astrophysics
Departmental Honors in Physics
Dean's List Spring 2017, Fall 2017, Spring 2018, Spring 2019

RESEARCH EXPERIENCE

Graduate Researcher September 2020 - Present
Yale Astronomy Department *New Haven, CT, USA*

Thesis Advisor: Marla Geha

Dissertation Research: Characterizing Satellite Galaxies in the SAGA Survey

Additional Projects:

The Kinematic Distribution of Willman 1, an Ultra-Faint Galactic Satellite; Advisor: Marla Geha

AGNFinder: A Variational Autoencoder for AGN Identification; Advisor: Meg Urry

Undergraduate Researcher September 2017 - August 2020
Columbia Astronomy Department *New York, NY, USA*

Advisors: Szabi Marka, Zsuzsa Marka

Advanced LIGO Timing Diagnostic System

Low-Latency Algorithm for Multi-messenger Astrophysics (LLAMA)

Summer Undergraduate Researcher June 2019 - April 2020
Dutch National Institute for Subatomic Physics (Nikhef) *Amsterdam, The Netherlands*

University of Florida's International REU Program in Gravitational Physics

Advisor: Chris Van Den Broeck

Probing Resonant Excitations in Exotic Compact Objects

Summer Undergraduate Researcher June 2018 - August 2018
Instituto de Astrofísica, Pontificia Universidad Católica de Chile *Santiago, Chile*

Advisors: Germán Gómez-Vargas, Andreas Reisenegger

Cherenkov Telescope Array Sensitivity to Dark Matter Annihilation

PUBLICATIONS

Refereed Publications:

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

Non-Refereed Publications:

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 (approved Oct. 2019 for Feb. 2020 revision)
- LIGO O3 Detector Author List (approved Oct. 2019 for Dec. 2019 revision)

PRESENTATIONS

Research Talks:

- Yale Astronomy Professional Seminar, April 2021. AGNFinder: A Variational Autoencoder for AGN Identification
- Columbia Astronomy Department Senior Presentation, May 2020. Probing Resonant Excitations in Exotic Compact Objects via Gravitational Waves
- Columbia Astronomy Department Lunch, December 2018. Cherenkov Telescope Array Sensitivity to Dark Matter Annihilation

Research Posters:

- 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

TEACHING EXPERIENCE

Yale Poorvu Center for Teaching and Learning, <i>McDougal Graduate Fellow</i>	May 2022
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

SCHOLARSHIPS AND GRANTS

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 AND MENTORING

Invited Public Outreach Talks:

Yale Pathways Summer Program, July 2022. The Milky Way Galaxy and its Satellites
Astronomy on Tap NYC, April 2022. The Milky Way Galaxy and its Satellites
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 Astro-
physics with LIGO

Yale Graduate Affiliate for Ezra Stiles College, <i>Graduate Affiliate</i>	September 2022 - Present
Yale Astro Sibs Program, <i>Grad Student Mentor & Co-Coordinator</i>	September 2020 - Present
Skype a Scientist, <i>Scientist Volunteer</i>	March 2020 - Present
Columbia Astrophysics Laboratory, <i>Research Mentor</i>	September 2019 - May 2023
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

OBSERVING EXPERIENCE

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

PROFESSIONAL SERVICE

Physics Department Faculty Hiring Committee, <i>Graduate Representative</i>	January 2023
Yale Astronomy Student Council, <i>Elected Representative</i>	September 2021 - Present
Yale Astronomy Committee on Diversity and Climate, <i>Member</i>	September 2022 - Present
Columbia Alumni Representative Committee, <i>Prospective Student Interviewer</i>	January 2021 - Present
AAS 237 Chambliss Poster Competition, <i>Judge</i>	January 2021

MEDIA COVERAGE

A Grad Student Seat at the Faculty Hiring Table, <i>astrobit.es</i>	January 2023
Senior Spotlight: Yasmeen Asali, <i>the Blue and White Magazine</i>	May 2020

CONFERENCES, WORKSHOPS, AND SUMMER SCHOOLS

AAS 238, <i>Virtual</i>	June 2021
AAS 237 Machine Learning Workshop, <i>Virtual</i>	January 2021
Columbia University Machine Learning In Science and Engineering, <i>Virtual</i>	December 2020
ITS CUNY Adventures in the Theoretical Sciences Summer School, <i>Virtual</i>	June - July 2020
SCiMMA Virtual Workshop, <i>Virtual</i>	May 2020
IceCube Collaboration Meeting, <i>Virtual</i>	May 2020
WFIRST Science Jamboree, <i>NYC</i>	March 2020
LIGO DetChar Face-to-Face Meeting, <i>LIGO Livingston Observatory, LI</i>	January 2020
AAS 235, <i>Honolulu, HI</i>	January 2020
La Serena School for Data Science, <i>La Serena, Chile</i>	August 2019
GR22 and Amaldi13, <i>Valencia, Spain</i>	July 2019
LSST Detection of Optical Counterparts of Gravitational Waves 2nd Workshop, <i>NYC</i>	May 2019
SCiMMA Community Planning Workshop, <i>NYC</i>	January 2019
AAS 233, <i>Seattle, WA</i>	January 2019
Future by the Future: Workshop in Multi-messenger Astrophysics, <i>NYC</i>	November 2018

PROFESSIONAL SOCIETIES

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