

Imad Pasha

imad-pasha@github.io
NASA/ADS Publications

EDUCATION

Astrophysics Ph.D. (in progress) YALE UNIVERSITY Advisor: Prof. Pieter G. van Dokkum Key Collaborators: Joel Leja, Nir Mandelker, Frank van den Bosch, Tim B. Miller	2018-present
Astronomy MPhil, Astronomy MSc YALE UNIVERSITY	2020
NSF Graduate Research Fellowship YALE UNIVERSITY	2018-2023
LSSSTc Data Science Fellowship	2018-2021
Astrophysics B.A., Physics B.A., Creative Writing Minor UNIVERSITY OF CALIFORNIA, BERKELEY Advisor: Prof. Mariska Kriek	2013-2017

OBSERVATIONS

Accepted PI Proposals

- Hubble Space Telescope Cycle 31 - GO 17508
- Palomar/DoubleSpec - 6 nights
- Palomar/DoubleSpec - 4 nights
- Keck/LRIS - 1 night
- Palomar/TripleSpec - 6 nights

Accepted Co-I Proposals

- HST Cycle 30 (GO 17301)
- JWST Cycle 2 (GO 3149)

Lead Observing Experience

Total: 72 nights

- Keck/KCWI (10m): 6 nights.
- Keck/LRIS (10m): 11 nights.
- Keck/NIRES (10m): 11 nights.
- Keck/NIRSPEC (10m): 2 nights
- Keck/MOSFIRE (10m): 11 nights.
- Palomar/TripleSpec (5m): 22 nights
- Palomar/DoubleSpec (5m): 7 nights.
- Lick/Kast (3m): 2 nights.

KEY PUBLICATIONS

1. Pasha, Imad; Lokhorst, Deborah; van Dokkum, Pieter; et al., “[A Nascent Tidal Dwarf Galaxy Forming within the Northern HI Streamer of M82](#)”, *ApJL* **923**, L21 (2021).
2. Pasha, Imad; Mandelker, Nir; van den Bosch, Frank C., et al., “[Quenching in Cosmic Sheets \[...\]](#)”, *MNRAS* **520**, 2 (2022).
3. Pasha, Imad; Leja, Joel; van Dokkum, Pieter; Conroy, Charlie; Johnson, Benjamin., “[Brackett- \$\gamma\$ as a Gold Standard Test of Star Formation Rates \[...\]](#)”, *ApJ* **898**, 2 (2020).
4. Pasha, Imad; Miller, Timothy B., “[pysersic: : A Python package for determining galaxy structural properties via Bayesian inference, accelerated with jax](#)”, *JOSS* , (2023).
5. van Dokkum, Pieter; Pasha, Imad et al., “[A Candidate Runaway Supermassive Black Hole Identified by Shocks and Star Formation in its Wake](#)”, *ApJL* **950**, 2 (2023).

HONORS, FELLOWSHIPS, & AWARDS

- 2022 — Yale Astronomy Beatrice Tinsley Award
The Tinsley award is given for the Best Astronomy Paper by a Yale Graduate Student in a given year.
- 2021 — Yale Poorvu Associates In Teaching Fellowship
Awarded to the graduate student proposer of a new or modified course to teach as an instructor of record.
- 2018 — Large Synoptic Survey Telescope Corporation Data Science Fellowship
Competitive 2-year fellowship aimed at positioning graduate students to be future leaders who can meet the scientific challenges posed by large astronomy datasets.
- 2018 — National Science Foundation Graduate Research Fellowship
Competitive Multi-year funding grant and computing access.
- 2018 — AAS Chambliss Award-Honorable Mention: AAS 231.
Poster prize at the annual AAS Conference.
- 2017 — UC Berkeley Astronomy Dorothea Klumpke-Roberts Award for Outstanding Scholarly Achievement
For outstanding scholarly achievement by either an upper-level undergraduate student, or an outstanding graduate student early in their research career.
- 2017 — AAS Chambliss Award-Honorable Mention: AAS 229.
Poster prize at the annual AAS Conference.
- 2015 — Third Place Poster Prize, Biennial Fifty-one Ergs Supernova Conference
- 2014 — First Place Poster Prize, Annual UNC Undergraduate Research Symposium

INVITED & CONFERENCE TALKS

- 2023 — A Journey through Galactic Environments, Porto Ercole, Italy
- 2023 — Outflows 2023—Feedback and the Baryon Cycle, Melbourne, Australia
- 2023 — Oases in the Cosmic Desert, Arizona, USA
- 2022 — Flatiron Institute Center for Computational Astrophysics, Thursday Series
- 2022 — UC Santa Barbara CGM Group Lunch
- 2022 — Cosmolunch at Centre for Astrophysics and Planetary Sciences, Racah Institute of Physics, The Hebrew University of Jerusalem
- 2020 — Indiana University Astronomy Department Lunch Talk

TEACHING

Co-Instructor of Record, Yale University

Spring 2024 · Yale Astronomy Research Preparation Workshop Series

Co-Instructor of Record, Yale University

Fall 2021 · Scientific Computing in Astrophysics · *with* Prof. Marla Geha

Teaching Fellow, Yale University

Spring 2020 · Stars and Their Evolution · Prof. Bob Zinn

Fall 2019 · Introduction to Astronomical Observations · Dr. Faison

Summer 2019 · Yale Summer Program in Astrophysics · Dr. Faison
Spring 2019 · Research Methods in Astrophysics · Prof. Geha
Fall 2018 · Earth in its Cosmic Context · Prof. Laughlin

Instructor of Record, UC Berkeley

Spring 2015, Spring 2016, Spring 2017 · Introduction to Python for Astronomers

Undergraduate GSI, UC Berkeley

Fall 2016 · Optical and Infrared Astronomy Laboratory · Dr. Duchene
Spring 2016 · Introduction to General Astronomy · Prof. Fillipenko

SERVICE AND OUTREACH

- Chair, Steering Committee: Astronomy Climate and Diversity Committee (Yale University)
- Co-Chair: Subcommittee on Undergraduate Affairs, Astronomy Climate and Diversity Committee (Yale University).
- Organizing Committee Member: Astronomy Equity and Inclusion Journal Club (Yale University).
- Undergraduate Summer Research Program Coordinator (Yale University).