

GRADUATE PROGRAM IN ASTRONOMY AT

Yale





# Why Yale Astronomy for your Ph.D.?

Plenty of resources for research and a  
supportive intellectual community

Yale *Astronomy*





# ACCESS TO WORLD-CLASS OBSERVING FACILITIES

We have excellent resources for observing, including on-campus observing facilities and telescope-time reserved specifically for our department members.

- Keck: 24 nights per year
- Palomar; 1/8 share
- SDSS V: full partnership



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An abstract background on the left side of the slide, featuring a series of blue lines that converge towards the right, creating a sense of depth and motion. Overlaid on these lines are white binary digits (0s and 1s) of varying sizes, some appearing to float or move along the lines. The overall color scheme is a gradient of blues, from a deep navy blue on the right to a lighter, almost white blue on the left where the lines and digits are most prominent.

# EASY-ACCESS HIGH PERFORMANCE COMPUTING FACILITIES

The Yale Center for Research Computing  
(YCRC) provides HPC resources freely available  
for all students to use.

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## GUARANTEED FUNDING

Teaching beyond the University requirements is optional to earn some extra cash, but your main funding as a researcher is secure for 5 years.

## SUPPORTIVE COMMUNITY

A fun and supportive graduate student community. Class of ~4-5 students admitted each year, and a total of ~25-30 students in the entire program.



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# A WIDE RANGE OF RESEARCH INTERESTS ACROSS FACULTY MEMBERS

For listing of faculty by research interest see: <https://astronomy.yale.edu/research>

**EXOPLANETS**

**GALAXY EVOLUTION**

**COSMOLOGY**

**STAR FORMATION**

**SOLAR AND STELLAR ASTROPHYSICS**

**...AND MORE**

Students complete 2 short research projects in their first two years  
\*before\* beginning PhD research. This allows for a fuller exploration of  
research opportunities.

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# STRUCTURE OF THE GRADUATE PROGRAM

## FIRST 2 YEARS

- 10 courses + 2 research projects (1 observational / experimental, 1 theory)
- 4 Semesters as Teaching Assistant (required)
- 1 Professional Development Seminar (taught every semester during PhD)

## END OF 2ND YEAR

Ph.D. Qualifying Exam

1. Written exam on general knowledge of astronomy aligned with coursework detailed to the left
2. Oral exam on proposed PhD project

## YEARS 3+

- PhD research
- 1 semester as Teaching Assistant (required)
- Yearly progress committee meetings, dissertation progress reports



# CURRENT WEEKLY ASTRONOMY EVENTS

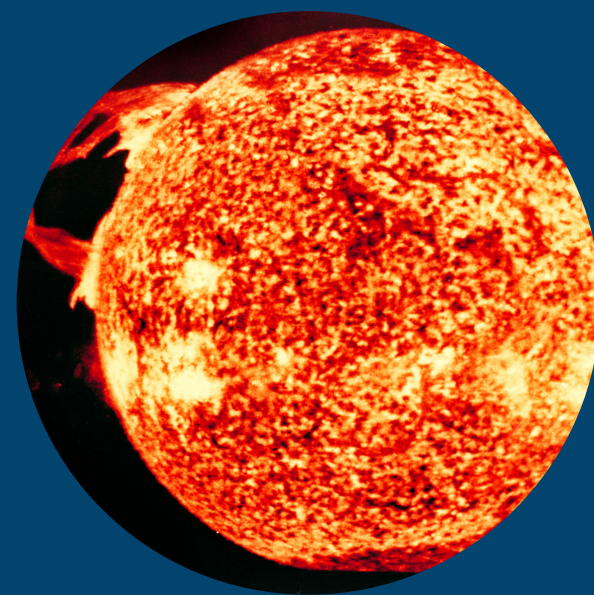
Weekly activities are open to all department members



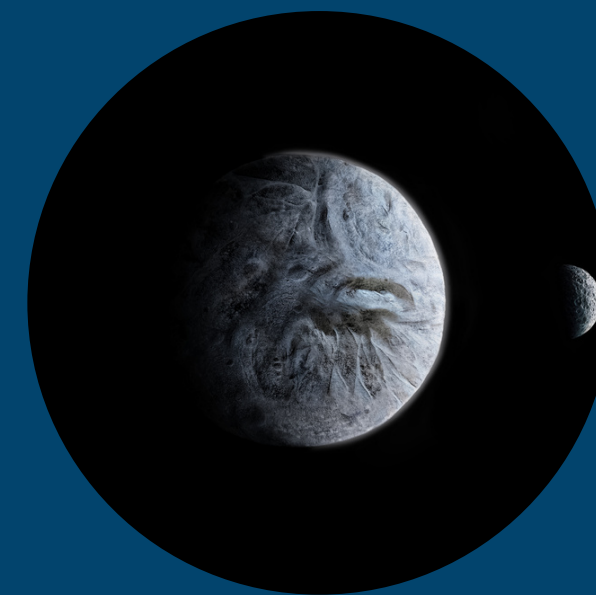
Astronomy  
Colloquium



Galaxy  
Lunch



Stellar  
Astrophysics  
Journal Club



Exoplanets and  
Stars Seminar



Data Science x  
Astro Seminar  
(bi-weekly)



IDEAS  
(Inclusivity, Diversity, &  
Equity in Astro) Journal  
Club





# PLEASE COME JOIN US!

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- Are you curious to learn and figure things out?
- Do you have desire for mastery and for learning new ways of problem-solving?
- Do you have core competence in foundational material – physics and mathematics?
- Have you had exposure to research methods and experience with research project, if opportunities were available?
- Do you have the capacity to deal with the ups and downs that are part of long-term intellectual learning?
- Do you have enthusiasm for research?
- Are you excited to belong to a scientific community working on cutting-edge problems?

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8-inch  
1876 Reed  
Refractor

16-inch RCT  
with CCD Imagers,  
Spectrographs

Classroom/computer lab  
with museum-quality  
display panels

50-seat digital  
planetarium theater

3m radio  
telescope

Observing deck with piers  
for small telescopes

#### ASTRONOMY EDUCATION AND OUTREACH CENTER:

- Weekly Public Nights - planetarium shows, public observing
- Summer Research for High School Students (YSPA)
- Weekly area school group visits
- Teaching experience for grad/undergrad students
- Astro 1xx lab exercises
- Astronomy Department Events

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# FOR MORE INFORMATION....

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VISIT OUR WEBSITE AT:  
ASTRONOMY.YALE.EDU



<https://www.facebook.com/YaleAstro>



<https://www.instagram.com/yaleastronomy/>



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