Welcome to the
Physics and Applied Physics Open House

Yale
Yale Physics and Applied Physics Open House

12.00-1pm  Graduate Program Overview
1-2pm       Student Organizations
2-3pm       Research Groups/Subfields
3-4pm       Research Groups/Subfields
4.15-5pm    Q&A with graduate students
8pm-        Zoom rooms with graduate students

For individual zoom/skype/phone meetings with faculty please contact them directly
Leave questions in chat box
Recordings and slides will be posted
Yale Physics Graduate Program Team

Prof. Bonnie Fleming  
*Director of Graduate Studies*

Dr. Rona Ramos  
*Graduate Program Coordinator*  
*Lecturer*

Stacey Watts  
*Graduate Registrar*

Prof. Karsten Heeger  
*Chair, Director Wright Laboratory*
Yale Physics by the Numbers 2019

**People**

- faculty (primary) 35
- instructional faculty 3
- faculty (secondary) 16
- research scientists 25
- postdocs 31
- grad students (physics) 133

**Physics students have diverse interests**

- applied physics
- astronomy
- bio
- engineering
- medical

**Employment after graduation**

- Unknown 11.1%
- Academic 41.7%
- Business 41.7%
- Government 4.6%
- Non-profit 0.9%

**Median time to graduation** 6.2 years

https://physics.yale.edu/people/alumni
Research Areas

broad research portfolio in experiment and theory

new science initiatives on campus

- quantum science
- data science
- instrumentation

https://physics.yale.edu/research
Yale Physics Research in Campus Centers

- Yale Quantum Institute
- YCAA (Yale Center for Astronomy and Astrophysics)
- Quantitative Biology Institute [QBio]
- Systems Biology Institute
- Energy Science Institute
State-of-the Art Facilities
Academic Life and Campus Resources

Physics Colloquia and Seminars

Department of Physics

Graduate Student Leadership

student organizations
graduate student advisory committee (GSAC)
Graduate Student Assembly (GSA)
townhalls
regular meetings with department leadership

Yale Poorvu Center for Teaching and Learning

Yale Scientific Teaching Course

teaching fellows
teaching certificates

Yale Science Diplomats

outreach
advocacy
Student Groups

Climate and Diversity Committee

Yale Physics Professional Development Organization

Women in Physics (+Allies)

Graduate Student Assembly

Department Happy Hour

Physics LGBTQ+
Outreach Opportunities

https://physics.yale.edu/outreach-events
Graduate Program

• **Coursework**
  – Must take 5 core courses plus one elective and a Special Investigation (research) course. Can pass out of core courses and take electives in their place.

• **Teaching**
  – Typically, < 10hrs/week of teaching for first 2 years. (Learn to teach, deepen your knowledge of Physics!)

• **Qualifying Exam**
  – Four 4-question tests, individual pass or fail, 2 tries plus one free try 1st year. Offered once per year just before fall semester

• **Research**
  – Typically start in first year, full-time in summers and when courses are complete
  – by mutual arrangement, you can start summer before you start graduate school (early start)

• **Flexibility in program**
  – many ways to personalize your course of study and research
  – admission to Yale does not bind you to a specific program
  – many Physics students work with faculty in other departments

https://physics.yale.edu/academics/graduate-studies
2018-2019 Honors and Awards - Students/Postdocs

Benjamin Brubaker, ‘17 awarded the American Physical Society’s Tanaka Dissertation Award in Experimental Particle Physics

Thomas Langford awarded 2019 Sambamurti Memorial Lectureship at Brookhaven National Laboratory

Brooke Russell awarded 2019 Gertrude Scharff-Goldhaber Prize

Grant Schumacher has been awarded an NSF Graduate Research Fellowship for 2019

Trevor Wright has been awarded an NSF Graduate Research Fellowship for 2019

Sheridan Green has been awarded an NSF Graduate Research Fellowship for 2019
Recent Graduate Student Alumni
https://physics.yale.edu/people/alumni

Brooke Russell’s journey of firsts, in physics and at Yale
*now Chamberlain Fellow at LBNL*

Shilo Xia
*now Chamberlain Fellow at LBNL*

Arpit Dua
*now UQM-IQIM
Postdoctoral scholar
Caltech*

Catherine Matulis
*now at MathWorks*
Come and join us!