Welcome to the
Physics and Applied Physics Open House

Yale
Yale Physics and Applied Physics Open House

Thursday, March 4th

1:00-1:50pm  Graduate Program Overview
2:00-3:00pm  Student Groups and Yale Resources
3:30-5:00pm  Research Groups (Subfields I)

check website for specific research areas

Friday, March 5th

10:00-11:30am Research Groups (Subfields II)
4:00-5:00pm  Q&A with grad students only
8:00pm       Grad student social rooms
How to learn more about Yale Physics?

Chat box in this Zoom: Leave questions in chat box.

Recordings and slides: Will be posted on website after Open House

Individual zoom/skype/phone meetings with faculty: Please contact them directly

Graduate student social rooms: Talk to our current students

Student voices videos: https://physics.yale.edu/academics/graduate-studies/prospective/media

Web site: https://physics.yale.edu
Yale Physics Graduate Program

https://physics.yale.edu
Yale Physics Graduate Program Team

Prof. Bonnie Fleming
Director of Graduate Studies

Dr. Rona Ramos
Graduate Program Coordinator
Lecturer

Prof. Karsten Heeger
Chair, Department of Physics
Director Wright Laboratory

Stacey Watts
Graduate Registrar
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 in Research Centers & Institutes

Wright Laboratory

YCAA Yale Center for Astronomy and Astrophysics

YQ Yale Quantum Institute

PEB Yale’s Integrated Graduate Program In PHYSICAL and ENGINEERING BIOLOGY

Systems Biology Institute

ESI Energy Science Institute

Quantitative Biology Institute [QBio]
State-of-the Art Facilities

https://wlab.yale.edu
Yale Physics Graduate Program

People

- faculty (primary) 34
- faculty (secondary) 24
- grad students (physics only) 126

Median time to graduation 6.2 yrs

Diverse interests/
interdisciplinary opportunities

- applied physics
- astronomy/astrophysics
- biological physics/systems biology
- materials science

Recent Alumni

https://physics.yale.edu/people/alumni
Diversity, Equity, and Inclusion

Statement of Principles

Respect
We continually strive to make our department a place that respects people with diverse backgrounds and values each others’ creativity.

Well-being
We commit to actively engage in creating a supportive and safe environment. Criticism and praise are professional and constructive.

Integrity
We carry out our work with honesty and with the highest standards. We shall not commit scientific or academic misconduct, defined as plagiarism, fabrication, or falsification.

Community
Our community actively includes all, enhancing collaboration and promoting our common mission to advance the frontiers of knowledge.

https://physics.yale.edu/statement-principles

https://physics.yale.edu/diversity-equity-and-inclusion
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)
Town halls
Regular meetings with department leadership

Yale Scientific Teaching Course

Yale Science Diplomats
Yale Campus Resources

Yale Graduate School of Arts and Sciences

Resources for Students

At Yale, you will find an extraordinary range of resources to fuel your intellectual and academic passions, and the community and support to help sustain you as you work toward your academic goals. Libraries and labs, working groups, funding sources, mentors and advisors, health and wellness resources, and more – you will weave all of these together in ways that best fit your own needs and interests during your time as a student here.

The biggest challenge? Because Yale is a large and complex organization, many of our resources are hidden in plain sight. It may take some work and initiative to find exactly what you are looking for, but in all likelihood, it’s here and you’ll find it. Below are a few resources other graduate students have found useful. We provide this as a guide, but it is far from comprehensive. Yale is constantly evolving, and every student who comes here is different. You will find your own unique path, one that takes you where you want to go. Let’s get you started.

Don't get discouraged! Still can't find what you're looking for? Be sure to ask people in your program, both students and staff. The Director of Graduate Studies or program registrar has worked with many graduate students and can help you find what you need. And please feel free to contact a member of our staff.

Financial & Fellowships

- Fellowships, stipends, conference travel funding, funding for working groups and symposia, and more. The Office of Financial Aid can answer many of your questions about funding and finance.

Diversity

Diversity Office for Graduate Student Development & Diversity

- For Current Students
- For Prospective Students

Office of Graduate Student Development & Diversity (OGSDD)

If you are:

- Interested in applying to the Graduate School, but need more information because you aren't sure that Yale is a good fit for you
- A current student, seeking advice and support

We are committed to maintaining a supportive and inclusive academic community at the Yale Graduate School of Arts and Sciences, where students from diverse backgrounds and experiences can thrive and achieve their personal and professional goals. We look forward to meeting with you.

The Office for Graduate Student Development and Diversity supports a nurturing and caring community of scholars that will welcome you, no matter who you are.

https://gsas.yale.edu/diversity

https://gsas.yale.edu/
Student Groups

Climate and Diversity Committee

Women in Physics (+Allies)

Yale Physics Professional Development Organization

Graduate Student Assembly

Department Social/Happy Hour

Physics LGBTQ+
Outreach Opportunities

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

- **Coursework**
  - Must take 6 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 Events**
  - Four 4-question tests, taken by all students at the beginning of their second year just before fall semester. Serves as a learning milestone. For core courses not yet taken, serves as a “pre-test” learning milestone.
  - Research presentation in conjunction with Special Investigations (research) course
Graduate Program

• 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 - contact Stacey for applications)
  – Research courses: Phys 515 seminar introduction to departmental research and research practices, Phys 990 “Special Investigations” with a research group
  – Positions in research groups through research and discussions with faculty, combination of your interests and fit/space with the group

• 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
2020-2021 Honors and Awards

Joseph Shomar won a 2020 Ford Foundation Predoctoral Fellowship

Daniel Seara selected as a "Rising Star in Soft and Biological Matter" at the University of Chicago

Sophia Hollick awarded the G. Howard Carragan Award from RPI

Charles Lomba
Dr. Julia A. Thompson Award

Iris Ponce
Professor Horace D. Taft Award

Ananya Rai
Nathan Hale Associates Award
Recent Graduate Student Alumni

Supraja Balasubramanian
Postdoctoral Associate
Fermi National laboratory

William Sweeney
Data Scientist
VideaHealth

Christian Weber
Research Associate Physics
Brookhaven National Lab

Estella Barbosa de Souza
Consultant
Boston Consulting Group

Shany Danieli
NASA Hubble and Carnegie-Princeton
Postdoctoral Fellow
Institute for Advanced Study

Mengzhen Zhang
Postdoctoral Associate
University of Chicago

https://physics.yale.edu/people/alumni
Come and join us!

Yale Physics