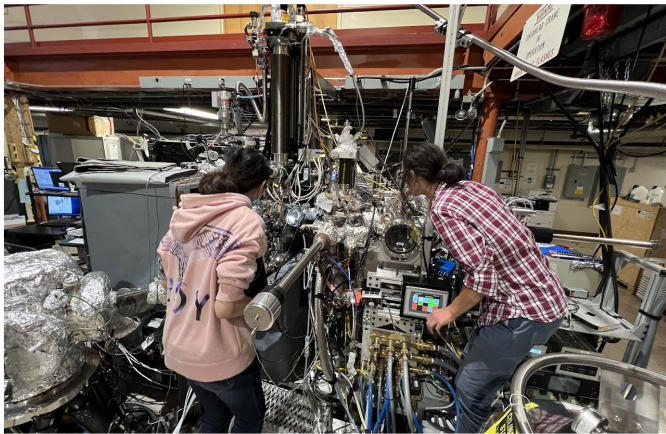
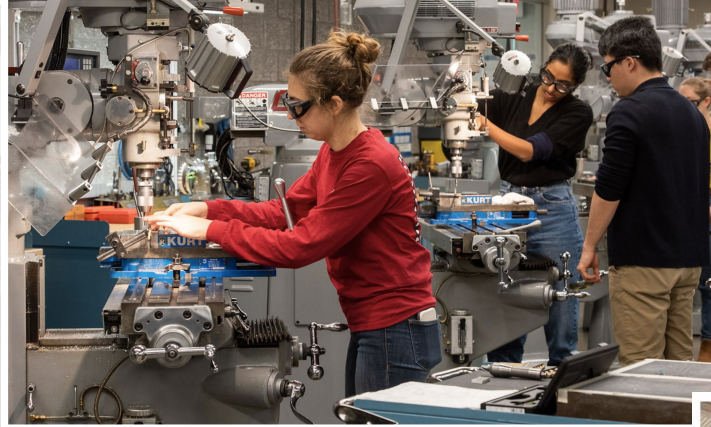


Yale Applied Physics & Physics Graduate Programs



appliedphysics.yale.edu
physics.yale.edu

Yale *Physics*

Yale Physics Graduate Program Team



Prof. Karsten Heeger
Chair



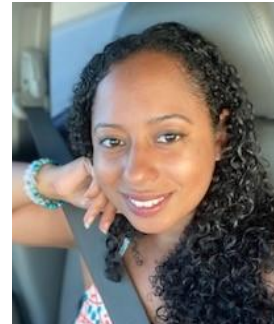
Prof. Daisuke Nagai
Director of Graduate Studies



Prof. Helen Caines
Director of Graduate Admissions



Dr. Rona Ramos
Graduate Program Coordinator & Lecturer



Stacey Watts
Graduate Program Registrar

Yale Applied Physics Faculty Representatives



Prof. Yu He
Applied Physics &
Physics



Prof. Logan Wright
Applied Physics

Graduate Student Representatives



Emily Pottebaum
Particle Experiment
Graduate Student, Year 2



Rohin McIntosh
Atomic & Optical Physics
Graduate Student, Year 3

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.

physics.yale.edu/statement-principles

Yale Physics by the Numbers 2023

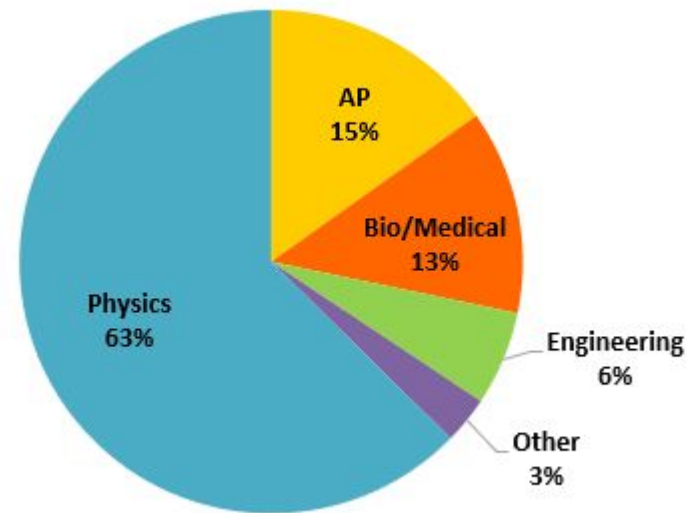
People

faculty (primary)	36
faculty (secondary)	32
research scientists	28
postdocs	30
grad students (physics)	156

median time to graduation 6.6 years

many opportunities to seek
Interdisciplinary research

Physics students have diverse
interests working with advisors
in Physics and related
disciplines



Research Areas

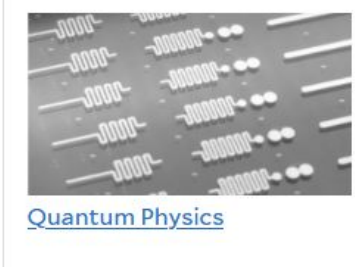
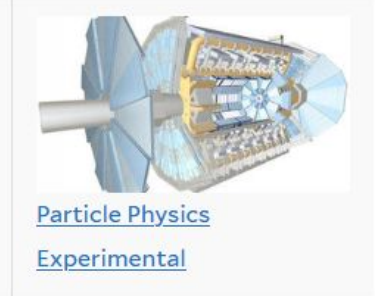
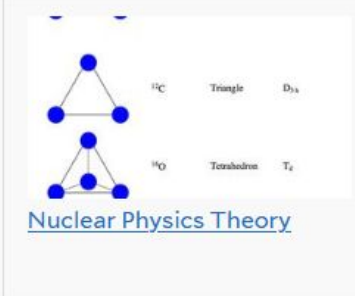
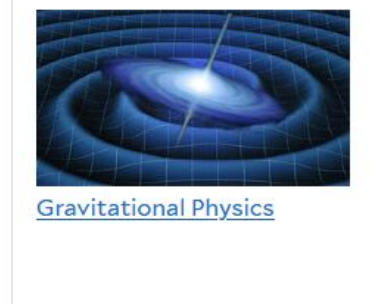
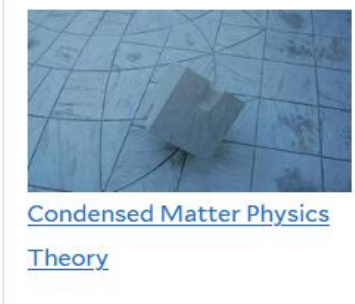
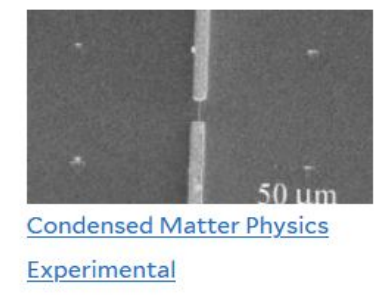
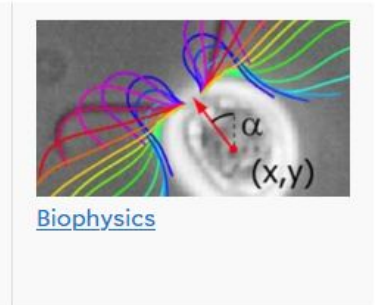
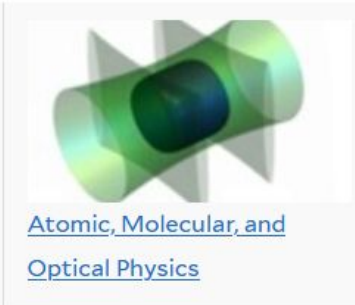
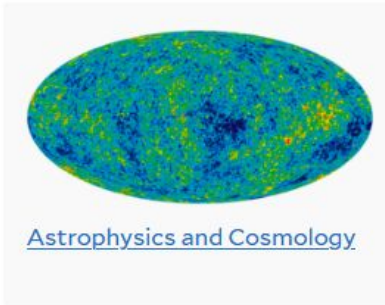
Traditional and emerging research areas

Departments research portfolio evolving

New faculty being hired

Current science initiatives on campus

- data science
- quantum science
- instrumentation



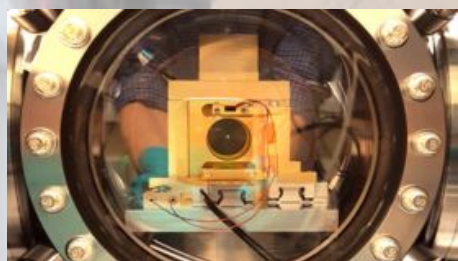
Yale Physics Research in Campus Centers



**Wright
Laboratory**



Yale Quantum Institute



YCAA (Yale Center for Astronomy & Astrophysics)

Yale Center for Research Computing



Yale's Integrated Graduate Program In
PHYSICAL and **ENGINEERING BIOLOGY**

Quantitative Biology Institute [QBio]



Systems Biology Institute

Energy Science Institute



Yale Physics

Physics Ph.D students' learning objectives

guide to the graduate program

1. Students will acquire a **general foundational knowledge of physics** at the graduate level and the necessary accompanying methodological aspects of **mathematics, computing, and instrumentation**.
2. Students will learn to **identify and solve problems at the frontier of physics knowledge**, uphold standards of scientific integrity, and disseminate their research.
3. Students will become **educators and communicators** with the ability to promote an understanding and appreciation of physics across the university and in society.
4. Department members and students will work together to develop and realize, in the department and in the community, progress and success in **diversity, equity, and inclusion** in all aspects of the scientific enterprise.

Graduate Program

- **Coursework**

- Must take, waive or pass-out of 6 core courses, take at least one advanced elective and a Special Investigation (research) course

- **Teaching**

- 10hrs/week of teaching for first 2 years
- Learn to teach, deepen your knowledge of Physics

- **Qualifying Event**

- Four 4-question “Event” → Not an exam! Taken at the beginning of the 2nd year. Part of the learning milestone’s of the department. All students pass by participation!

- **Research**

- typically, start in first year, full-time in summer after year 1
- 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

Q&A



Academic Life and Campus Resources

Graduate Student Leadership

- ★ Regular town halls with department leadership
- ★ Graduate Student Advisory Committee
- ★ Graduate Students on Departmental Committees

Physics Colloquia and Seminars

Department of Physics

Home About Research **Academics** People Media Events

For Prospectives

HOME » EVENTS

	Upcoming	Month	Week	Day	Year	All E
Physics Seminar Calendar						
External Seminars of Interest						
Physics Club & Prize Lectures Flyer						
Physics Club						
Prize Lectures						
Kimball Smith Series						


Upcoming Events	
OCTOBER 12, 2022	
11:00am	YCRC Research Support Office Hours
4:30pm	Nobel Prize in Physics 2022 Lecture: A. Douglas Stone, Yale University, "Spooky Action at a Distance wins the Nobel Prize"
OCTOBER 13, 2022	

Yale Poorvu Center for Teaching and Learning

FACULTY ▾ POSTDOCS ▾ GRADUATE STUDENTS ▾ UNDERGRADUATES ▾ INITIATIVES ▾


Home Graduate Students

Graduate Students




About the Graduate Writing Laboratory

The Graduate Writing Lab




Writing and Public Speaking Consultations



Writing Workshops and Panels

Each semester, the Graduate



Peer-Review Groups

Learn about Peer-Review groups and how they can amplify your

GWL Writing Retreats and All Writes

Join your fellow graduate and professional school students for

Teaching Workshops

Writing Resources for Graduate Students


Resources to guide you through all forms of academic writing in your

Teaching Programs and Grants

About Teaching Development for Graduate and Professional School Students

Teaching Forums

Teaching Consultations and Classroom Observations



Resources for Graduate Student Teachers

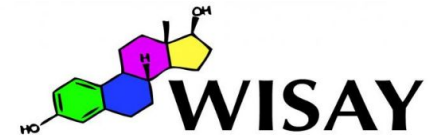
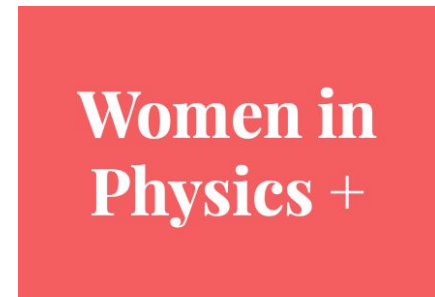
McDougal Graduate Student Center



student support resources and community

Student Groups

Climate and Diversity Committee



GSAC

Graduate Student Advisory Committee



Andy Ding (Year 5)



Charles Lomba (Year 4)



Katie Chang (Year 3)



Braedyn Au (Year 3)



Andrew Neely (Year 2)



History and Foundations of Physics Reading Group (HoFoP)



Women in Physics (+Allies)



Diversity, Equity, and Inclusion



Research & Discovery



Community & Belonging



News & Honors



Education



Outreach



Get Involved



Shared Leadership



Advocacy



Legacy

Yale Physics Graduate Diversity Fellowship



Climate and Diversity Committee

APS Inclusion, Diversity, and Equity Alliance (APS IDEA)



Office for Graduate Student Development & Diversity (OGSDD)

physics.yale.edu/diversity-equity-and-inclusion

Yale *Physics*

The Physics PhD Application Components

- Personal Details
- Program of Study
- Statement of Academic Purpose (Research interests)
- 3 Letters of Recommendations
- Academic History
- Program-Specific Questions (subfields/faculty of interest)
- Additional Questions (All optional, Personal Narrative Recommended)
- Languages
- Test Scores (*GRE scores are Optional. TOEFL/IELTS scores are required for non-english speakers.)
<https://gsas.yale.edu/faq/admissions/standardized-test-questions>
- Resume/CV

<https://gsas.yale.edu/admissions/degree-program-application-process>

Frequently Asked Questions

Testing -

GREs - Optional

TOEFL/IELTS - Not required from an institution where English is the primary language of instruction. No minimum if not, 25+ on TOEFL speaking test, or 7.5+ on IELTS to teach

Application Costs and Deadlines -

Application Fee - \$105 USD, [Fee waiver request forms](#) must be submitted before submitting applications

Application Deadline - December 15th

Graduate Student Support -

Tuition and Health Fees - \$0 cost to student

Graduate Stipend - \$40,530 USD, increases yearly

Early Program Opportunities -

Early Start Research - Paid research in a Research Group, June 1 - Aug 15

Physics Bootcamp - Basic refresher class in several foundational physics topics



Come and meet us!

~~Oct. 26-28 - SAGNAS Conference~~

~~Nov. 7 - Joint Webinar with Astronomy~~

~~Nov. 8 - Joint Webinar with Applied Physics~~

Nov. 9-10 - NSBP Conference

Dec. 15 - Applications Due

Early Feb. - Offer letters sent

April 15 - Deadline to Accept



Physics Open House

April 4-6, 2024

Q&A

