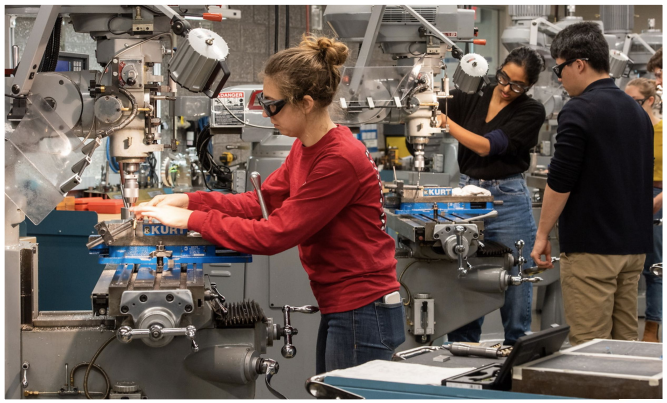
Yale Physics Graduate Program Webinar



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 *Physics*

Yale Physics Graduate Student Representatives

Charles Lomba
Biological Physics/PEB, Year 4

Molly Watts
Particle Experiment, Year 3

Yarone Tokayer
Astrophysics/Cosmology, Year 3

Yale Physics by the Numbers 2023

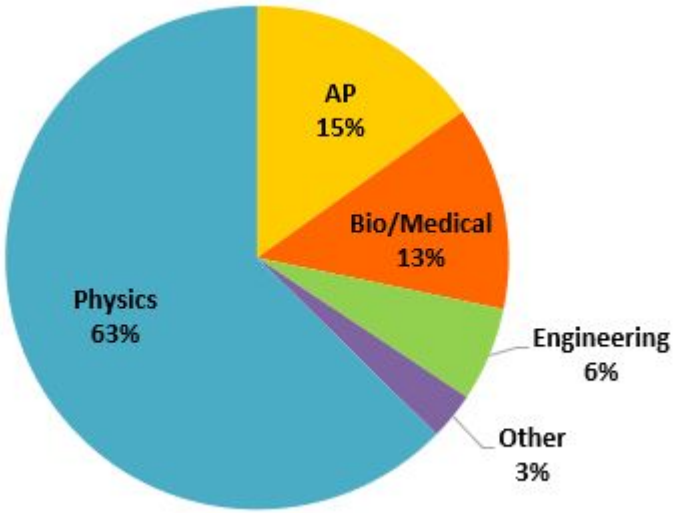
People

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



Yale Physics

Research Areas

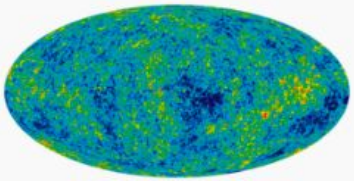
Traditional and emerging research areas

Research portfolio of department is evolving

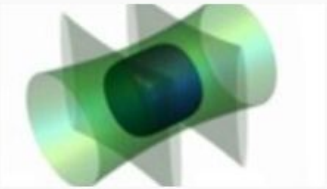
New faculty being hired

Current science initiatives on campus

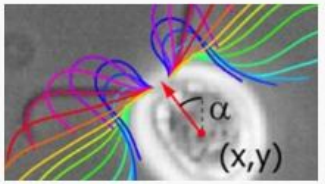
- data science
- quantum science
- instrumentation



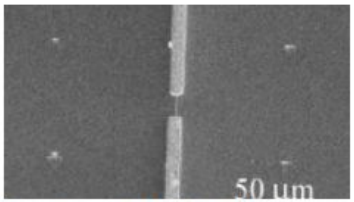
Astrophysics and Cosmology



Atomic, Molecular, and Optical Physics

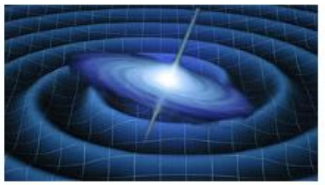


Biophysics

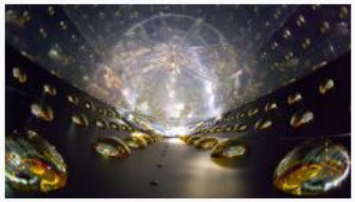


Condensed Matter Physics Experimental

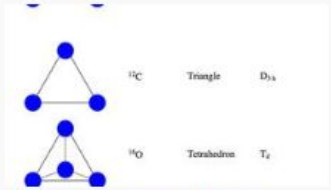
Condensed Matter Physics Theory



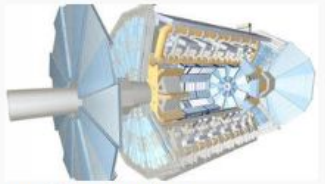
Gravitational Physics



Nuclear Physics Experimental

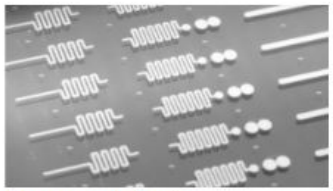


Nuclear Physics Theory



Particle Physics Experimental

Particle Physics Theory



Quantum Physics

https://physics.yale.edu/research

Yale Physics

Yale Physics Research in Campus Centers

Wright Laboratory

Yale Quantum Institute

YCAA (Yale Center for Astronomy & Astrophysics)

Quantitative Biology Institute [QBio]

PEB

Yale's Integrated Graduate Program In
PHYSICAL and ENGINEERING BIOLOGY

Systems Biology Institute

Energy Science Institute

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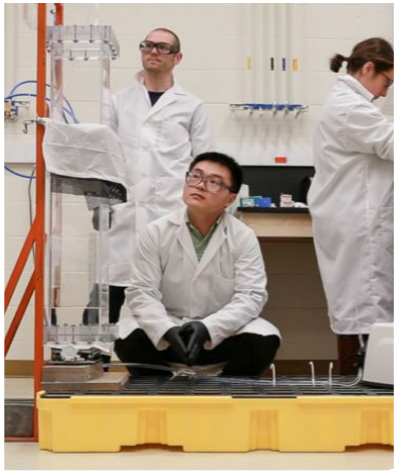
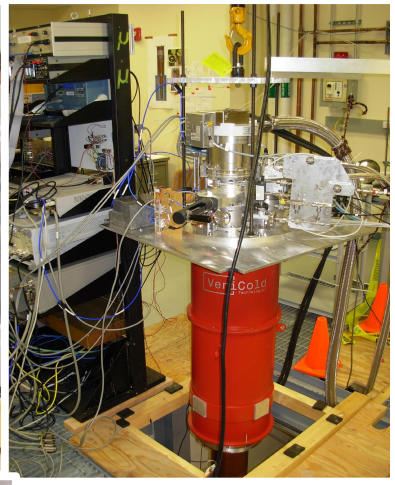
State-of-the Art Facilities

Wright Laboratory





wlab.yale.edu

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.

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Graduate Program

- **Coursework**
  - Must take 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

https://physics.yale.edu/academics/graduate-studies

Yale Physics

Q&A

Yale *Physics*

Academic Life and Campus Resources

Physics Colloquia and Seminars

Department of Physics

Home | About | Research | Academics | People | Media | Events | For Prospectives

HOME » EVENTS

- Physics Seminar Calendar
- External Seminars of Interest
- Physics Club & Prize Lectures Flyer
- Physics Club
- Prize Lectures
- Kimball Smith Series

Upcoming | Month | Week | Day | Year | All E

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

Writing and Public Speaking Consultations

Writing Workshops and Panels

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

Writing Resources for Graduate Students

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

About Teaching Development for Graduate and Professional School Students

Teaching Consultations and Classroom Observations

Teaching Workshops

Teaching Programs and Grants

Teaching Forums

Resources for Graduate Student Teachers

Graduate Student Leadership

Regular town halls with department leadership

Graduate Student Advisory Committee

Graduate Students on Departmental Committees

McDougal Graduate Student Center

student support resources and community

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

Yale Physics Graduate Diversity Fellowship

Climate and Diversity Committee

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

Office for Graduate Student Development & Diversity (OGSDD)

Yale Physics

Student Groups

Climate and Diversity Committee

Local 33 UNITE HERE!

Women in Physics +

WISAY

QuARK
(Queer Affiliated fRiends of physiKs)

GSAC
Graduate Student Advisory Committee

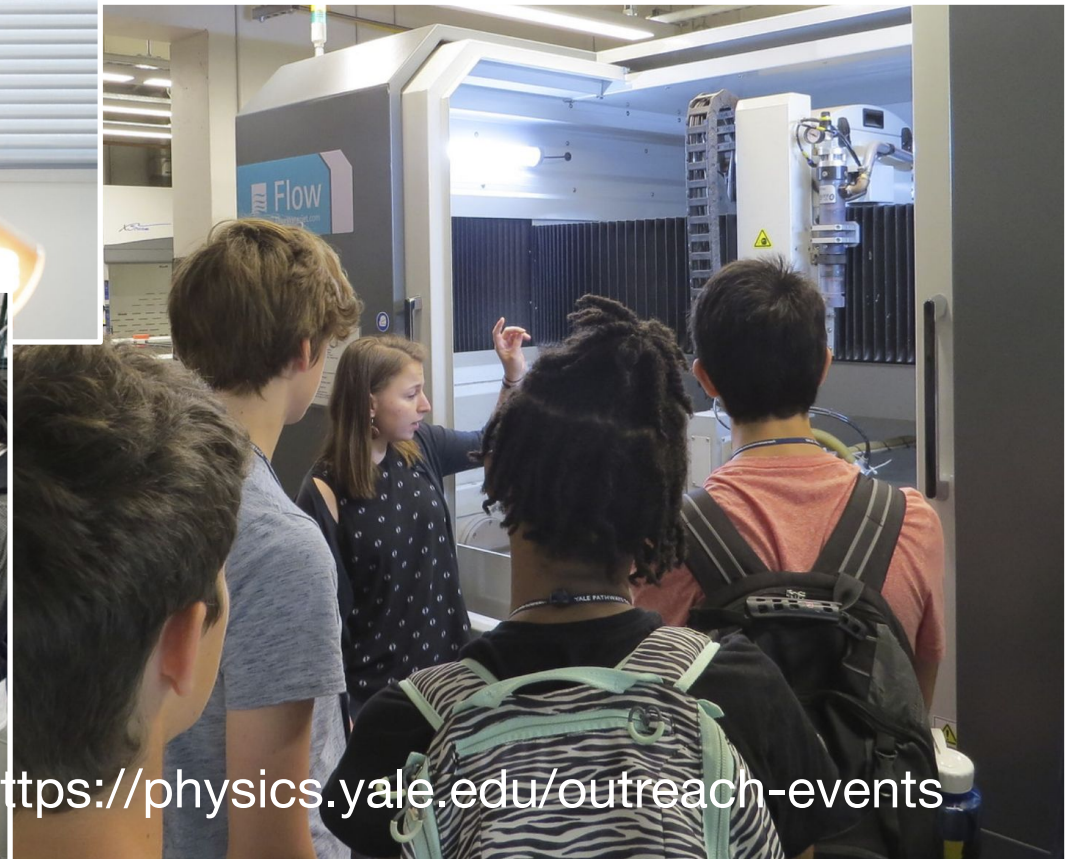
Andy Ding (Year 5) | Charles Lomba (Year 4) | Katie Chang (Year 3) | Braedyn Au (Year 3) | Andrew Neely (Year 2)

GSA
graduate student assembly
gsa.yale.edu

History and Foundations of Physics Reading Group (HoFoP)

Women in Physics (+Allies)

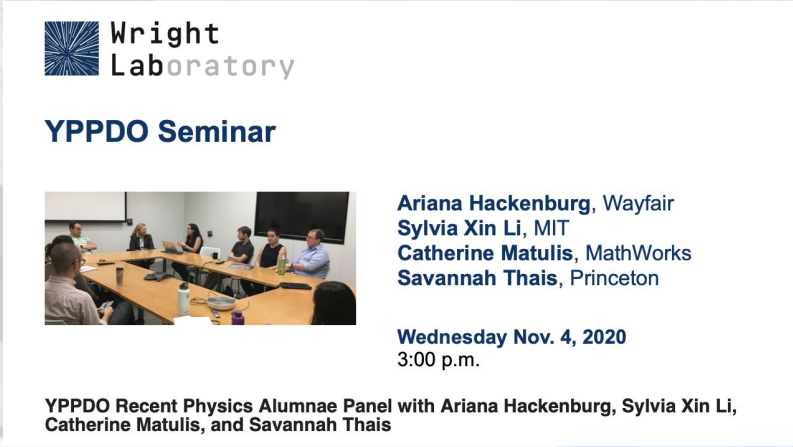
Outreach Opportunities



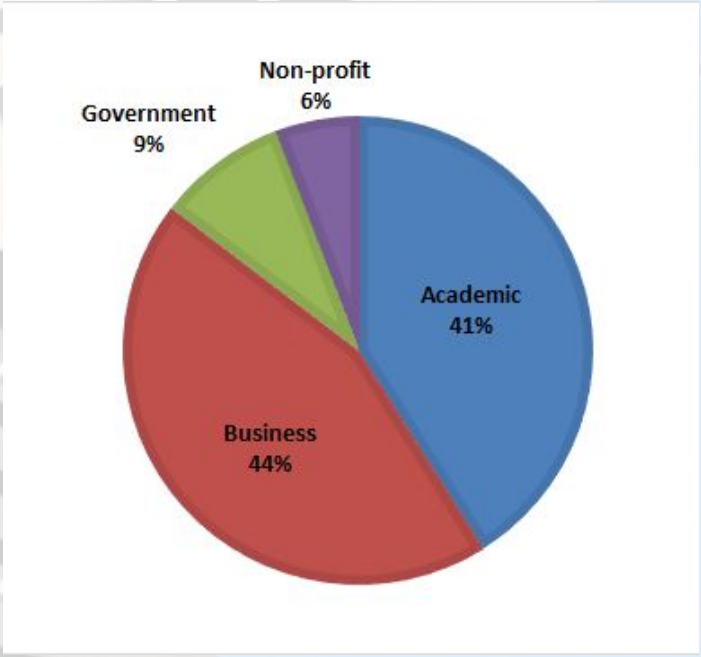
https://physics.yale.edu/outreach-events

Career Mentoring

- Career development workshops through YPPDO (Yale Physics Professional Development Organization)
  - https://yppdo.yale.edu/ and https://wlab.yale.edu/calendar/year



- Majority of our students go on to University/Lab Post-doctoral positions. Second largest group goes to Data Science/Engineering in Industry



- Support Career Mentoring towards academia, government, industry, and beyond

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

Yale Physics

The Physics PhD Application Components

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

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

Yale Physics

Come and meet us!

Oct. 26-28 - SACNAS 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

Tentatively…. March 6-8 or April 4-6, 2023

Yale Physics