Yale Physics Graduate Program

physics.yale.edu
Yale Physics Graduate Program

represented here by

Prof. Bonnie Fleming
Director of Graduate Studies

Dr. Rona Ramos
Graduate Program Coordinator Lecturer

Prof. Karsten Heeger
Chair

Hannah Bossi (Year 2)
Sumita Ghosh (Year 4)
Sohan Vartak (Year 4)
Estella de Souza (Year 6)
## Yale Physics by the Numbers 2019

### People

<table>
<thead>
<tr>
<th>Role</th>
<th>Count</th>
</tr>
</thead>
<tbody>
<tr>
<td>faculty (primary)</td>
<td>35</td>
</tr>
<tr>
<td>faculty (secondary)</td>
<td>16</td>
</tr>
<tr>
<td>research scientists</td>
<td>25</td>
</tr>
<tr>
<td>postdocs</td>
<td>31</td>
</tr>
<tr>
<td>grad students (physics)</td>
<td>133</td>
</tr>
</tbody>
</table>

### Physics students have diverse interests

- applied physics
- astronomy
- bio
- engineering
- medical

### Employment after graduation

- **Academic**: 41.7%
- **Business**: 41.7%
- **Government**: 4.6%
- **Non-Profit**: 0.9%
- **Unknown**: 11.1%

Median time to graduation: 6.2 years

[https://physics.yale.edu/people/alumni](https://physics.yale.edu/people/alumni)
Research Areas

traditional and emerging research areas

research portfolio of department is evolving

new science initiatives on campus

- data science
- quantum science
- instrumentation

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

Wright Laboratory

YCAA (Yale Center for Astronomy and Astrophysics)

YQ (Yale Quantum Institute)

Quantitative Biology Institute [QBio]

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

Systems Biology Institute

Energy Science Institute
State-of-the Art Facilities
Academic Life and Campus Resources

Physics Colloquium and Seminars
Department of Physics

- Teaching Fellows
- Teaching Certificates
- Graduate Student Town Halls
- Regular meetings with department leadership
- Graduate student advisory committee

Yale Scientific Teaching Course

Yale Science Diplomats

Yale Poorvu Center for Teaching and Learning

FACULTY > POSTDOCS > GRADUATE STUDENTS > UNDERGRADUATES

Home | Initiatives | STEM Education and Evaluation | Yale Scientific Teaching Course

Upcoming Events

November 21, 2019

3:00pm  Mossman Seminar: Andreas Helset, NBI (via Skype). "Heavy Particle Effective Theories"

6:00pm  NPA Seminar: Brian Backford, University of Michigan. "Progress on the search for the elusive K^0_L -> 2mu with the KOTO Detector"

6:00pm  Condensed Matter Seminar: Chattanya Murthy
What can we do to help you?

Physics Representatives

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Climate and Diversity Committee

Women in Physics (+Allies)

Graduate Student Assembly

Department Happy Hour

Women in Physics +

Physics LGBTQ+
Outreach Opportunities

https://physics.yale.edu/outreach-events
Emily Coates is the Wright Laboratory Artist-in-Residence for the 2018-2019 academic year. Her research project, Moving and Being Moved at the Intersection of Science and Dance, focuses on a variety of sites in which dance artists and scientists collide. In particular, she is studying “zones of intensification,” in which knowledge from one discipline interacts with and moves into another. The research outcomes will include writing, film, and live performance. We encourage those who are interested to participate and interact with Emily at Wright Lab. More information about the Wright Lab Artist-in-Residence Program and Coates’ work can be found at wlab.yale.edu/media/arts.
Graduate Program

- **Coursework**
  - Must take or pass-out of 5 core courses, take at least one elective and a Special Investigation (research) course

- **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+1 tries

- **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 do not bind you to a specific program
  - many Physics students work with faculty in other departments

https://physics.yale.edu/academics/graduate-studies
Come and meet us!

Physics and Applied Physics Open House
March 26-27, 2020

Register by March 4, 2020
https://physics-openhouse.yale.edu
Contact and Information

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