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# Yale Physics



## Events

### Friday, August 13

3:00 pm **Online Dissertation Defense:** *Measurement of the Reactor Antineutrino Spectrum of U-235 by PROSPECT and Daya Bay*, Jeremy Gaison, Yale University, zoom, password 065553. Thesis advisor: Karsten Heeger.

### Monday, August 30

11:30 am **Online Dissertation Defense:** *The Development of Mathematical Methods for Tackling Problems in Non-Perturbative Quantum Field Theory, Cosmology, and Gravity*, Daniel Berkowitz, Yale University, zoom tbd. Thesis advisors: George Fleming and Vincent Moncrief.

[More events](#)

## News



### Granville Academy explores diversity, equity and inclusion for student researchers

The third annual Granville Academy, a week of diversity, equity and inclusion workshops for undergraduate students doing summer research in astronomy and physics, was held online via Zoom from July 13 to 16, 2021.

### 2021 Physics Undergraduate Summer Research Symposium

On July 27, 2021, ten undergraduate students who have been working in the Physics Department at Wright Lab over the summer each presented their research projects to an audience of about 40 of their peers, mentors, and community members.



## Physics graduate student Emily Kuhn explains the physics of gymnastics for WIRED

Wright Lab graduate student Emily Kuhn is a former level 10 gymnast who is now studying for her Ph.D. in physics at Yale. She explains the physics of gymnastics in a video for WIRED called "The Physics Behind Gymnastics, Explained (Vaults, Tumbles and Flips)".



## Naim Karacayli successfully defends thesis

On August 3, 2021 Naim Karacayli successfully defended the thesis: "Improving the Cosmic Statistics of Neutral Hydrogen" (Advisor: Nikhil Padmanabhan).



## Postdoctoral Associate Mike Sas defends Ph.D. thesis, with honors

Dr. Mike Sas, postdoctoral associate with the RHI group, very successfully defended his Ph.D. at the University of Utrecht, Netherlands last month (advisor Prof. Thomas Peitzmann). He graduated *cum laude*, which is a rare distinction for Ph.D.'s at the University of Utrecht, and means that the quality of his thesis was considered by his committee to be among the top 5 percent in the relevant field of research worldwide. His thesis was titled "Illuminating Light - Neutral meson production and direct photon correlations from small to large collision systems at the LHC," reporting on results of his studies as part of the ALICE collaboration.

Here at Yale he is continuing his studies in ALICE.

More news

## Community

### SPL Renovation Updates

There will be a water shutdown for SPL on Saturday, 8/14 from 7 am - 12 pm. During this time, building occupants will not be able to use toilets, sinks, drinking fountains or eyewash stations. Additionally, beginning 8/10 and lasting for 2-3 weeks, one wood entrance door of SPL will be closed at a time for refinishing. Signage will be posted. Please contact Hannah Carroll or Candy Francis with any questions.

### Climate and Diversity Committee News

Have a safe and healthy rest of the summer.

*If interested in joining the CDC, please contact Helen Caines, Chair of CDC. You may contact the whole committee at [physics-cdc@mailman.yale.edu](mailto:physics-cdc@mailman.yale.edu)*

### COVID-19 update

Please check [Yale COVID-19 Statistics](#) for current statistics. The current COVID-19 Alert Level is Yellow (see the site for an explanation).

[Yale COVID-19 Site](#)  
[COVID-19 Workplace Guidance website](#)  
[Yale College COVID-19 Announcements and FAQs](#)  
[2020-2021 Academic Year FAQs for Graduate Students](#)  
[Yale Physics COVID-19 site](#)

## Opportunities

### Faculty positions

[Faculty and Associate Faculty Positions](#) - Perimeter Institute (no date)

### Postdoctoral positions

[Yale Postdoctoral Fellowship in Quantum Information Theory](#) - Yale University (Feb. 1, 2022)

University of Chicago Fellowship Opportunities:

- Grainger Fellowship in Experimental Physics - all fields ([Webpage](#): Deadline Oct. 15, 2021)
- Biological Physics Fellowship in Biological Physics ([Webpage](#): Deadline Oct. 15, 2021)
- Quantum Fellowship in Quantum Science ([Webpage](#): Deadline Oct. 15, 2021)
- Kadanoff-Rice Fellowship in Materials Science ([Webpage](#): Deadline Oct. 15, 2021)
- Kadanoff Fellowship in Theoretical Physics ([Webpage](#): Deadline Nov. 15, 2021)
- KICP Fellowship in Cosmological Physics ([Webpage](#): Deadline Nov. 15, 2021)
- Fermi, McCormick, Oehme Fellowship in Particle Physics, Astro Physics & Astronomy ([Webpage](#): Deadline - to be determined)

## Graduate student and Postdoc Research

[2021-2022 Franke Interdisciplinary Research Awards](#) for Graduate Students and Postdocs (Aug. 27, 2021)

## Undergraduate Research

Research Assistant - Yale School of Public Health (contact [Navin Kumar](#) for further information)

DOE's Office of Science [Spring 2022 Undergraduate Internships](#)

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