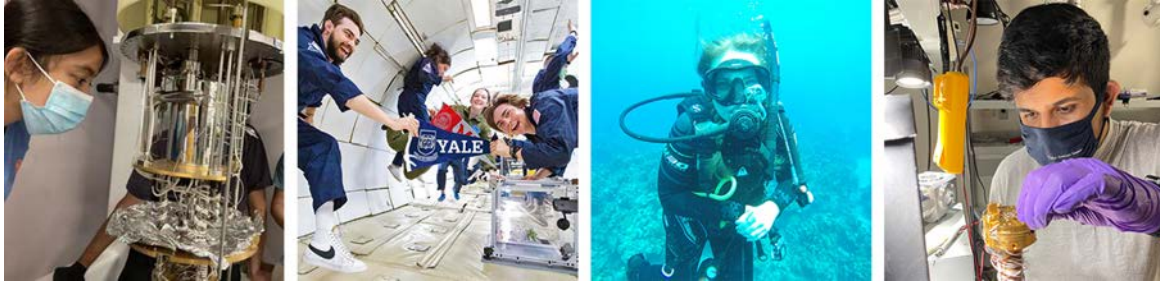


# Yale Physics



**Friday, March 25, 2022**

## Events

### Monday, March 28

- 4:00 pm **Physics Club:** *Non reciprocal phase transitions*, Vincenzo Vitelli, University of Chicago, [zoom](#), passcode: 863491. Host: Ben Machta.
- 4:00 pm **Department of Chemistry Silliman Lecture in Inorganic Chemistry:** *Stable carbenes as transition-metal surrogates*, Professor Guy Bertrand, University of California, San Diego, SCL 160.
- 4:00 pm **Department of Molecular Biophysics & Biochemistry Paul Sigler Lecture:** *The molecular basis of histone code cross-talk*, Cynthia Wolberger, Johns Hopkins, Bass 305 and [zoom](#). Host: Donald Engelman.

### Tuesday, March 29

- 12:00 pm **Data Science x Astronomy Seminar:** *Multi-domain calibration of machine learning models and its relation to out-of-domain generalization*, Uri Shalit, Technion, 46 Hillhouse conference room or [zoom](#).

### Wednesday, March 30

- 4:00 pm **The Franke Program in Science and the Humanities:** *Life's Edge: The Search for What it Means to be Alive*, Carl Zimmer, Yale University, [Register in advance for this webinar](#).
- 4:00 pm **Department of Earth & Planetary Sciences Colloquium:** *The social responsibility of a climate scientist*, Adam Sobel, Columbia University, KGL 123.
- 4:15 pm **Department of Mathematics Colloquium:** *Title TBA*, Charles Smart, Yale University, contact department for location/connectoin information.

### Thursday, March 31

- 9:30 am **Dissertation Defense:** *Measuring the knot of non-Hermitian degeneracies and non-Abelian braids*, Parker Henry, Yale University, SPL 56. Thesis Advisor: Jack Harris.
- 11:00 am **Yale Quantum Institute Talk:** *AC Effects in Superconductor-Graphene Devices*, Trevyn Larson, Duke University, YQI Seminar room or [zoom](#).

- 1:00 pm      **Nuclear Particle Astrophysics (NPA) Seminar:** *Discovering Neutrinoless Double-Beta Decay with LEGEND*, Julieta Gruszko, University of North Carolina, WL 214 or [zoom](#), [passcode: 274644](#). Host: Michael Jewell.
- 2:30 pm      **Yale Astronomy Virtual Colloquium:** *Title TBA*, Jason Dexter, University of Colorado, zoom, contact department for connection information.

## Friday, April 1

- 2:00 pm      **EHS Orientation for WL Shops:** Led by Charles Watts, EHS. Wright Lab Teaching Shop (WL-101). This event was rescheduled from its original date on March 25. [Register here](#).
- 3:30 pm      **Dissertation Defense:** *A Light in the Dark: UltraLight Dark matter Phenomenology in Simulations*, Luna Zagorac, Yale University, SPL 59. Thesis Advisor: Nikhil Padmanabhan.

[More events](#)

## News



### Yale Physics welcomes NSF MPS-Ascend postdoctoral fellow Fernando Flor

Yale Physics and Wright Lab welcome Fernando Flor, a postdoctoral fellow working with Helen Caines and the Relativistic Heavy Ion Group. Flor is the first postdoctoral fellow at Yale Physics to be supported by the [NSF Mathematical and Physical Sciences Ascending Postdoctoral Research Fellowship \(NSF MPS-Ascend\)](#).



### Emma Castiglia successfully defends thesis

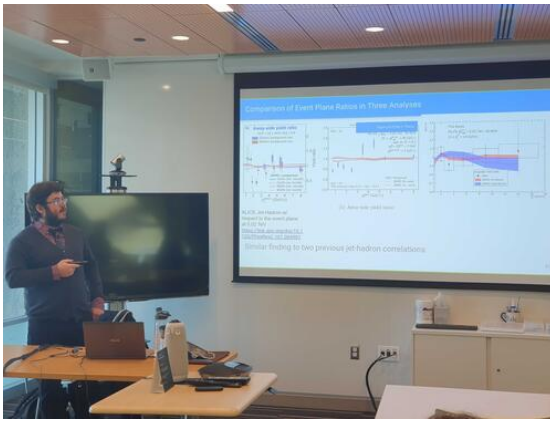
On March 11, 2022, Emma Castiglia successfully defended the thesis “Machine Learning for Tau Leptons and the Search for the Associated Production of a Higgs Boson with a Vector Boson, with the Higgs Boson Decaying to a Tau Pair at ATLAS”. (Advisor: Sarah Demers).



### William Thompson successfully defends thesis

On March 8, 2022, Yale Physics and Wright Lab graduate student William Thompson successfully defended the thesis “Searching for Dark Matter with COSINE-100”. (Advisor: Reina Maruyama).

### Michael Oliver successfully defends thesis, “Measurement of



## Correlations Between Neutral Pions and Charged Hadrons in Heavy Ion Collisions with ALICE

On Monday, March 14, 2022, Michael Oliver successfully defended his thesis, "Measurement of Correlations Between Neutral Pions and Charged Hadrons in Heavy Ion Collisions with ALICE" (advisor: John Harris).

[More news](#)

## Community

### Climate and Diversity Committee News

The Working Women's Network (WWN), invites you to join them for a celebration of the 2022 Recognition Award recipients on Thursday, March 31 from 12:00-1:00 p.m. via Zoom. [RSVP](#).

**FLY Lean In Mentorship Program:** How to Talk to Your Boss About Your Career Goals, on Tuesday, May 3rd, from 12-1:30pm via Zoom. By partnering with us on the session, we hope you will promote the event to your member base. FLY will also list your Affinity Group on the invitation. Please let me know if you would like to partner on the event by next Friday, April 1st.

Also, The New Haven Free Public Library, in partnership with the Yale Affinity Groups, is excited to bring you Wonderful Books and Where to Find Them, a book club for families focusing on topics of social importance. Come for the reading, and stay for the discussion! The next book club event will be Saturday, April 2 at 11:00 a.m. at the New Haven Free Public Library, 133 Elm Street on the topic "Faith". Questions? Call (203) 946-8129. This event will take place on the first or second Saturday of every month at 11 am.

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

### COVID-19 update

[Yale COVID-19 Information](#)  
[Yale COVID-19 Statistics](#)  
[COVID-19 Workplace Guidance](#)  
[Yale College COVID-19 Announcements and FAQs](#)  
[Yale Physics COVID-19 site](#)  
 Current COVID-19 status is Yellow

## Opportunities

### Faculty Positions

[Assistant Professor in Experimental Condensed Matter Physics](#) at the University of California, Riverside (deadline Mar. 30, 2022 )

[Assistant Professor position in Experimental Particle Astrophysics, Cosmology or Gravitational Waves](#) at the University of California, Riverside (deadline Apr. 1, 2022)

[Visiting Assistant Professor in Physics \(2 positions\)](#) - Illinois Wesleyan University

[Asst. Prof. in Experimental Particle Physics position](#) - UPenn

[Assistant Professor of Physics, Tenure track](#) - The College of Wooster

[Junior Faculty Search in Fundamental symmetries \(experiment\), broadly defined](#) - UC Berkeley

[Assistant Professor in Experimental Particle Physics](#) - University of Pennsylvania

[Physics Faculty Position](#) - CSU San Bernardino

[Full-Time Lecturer Position in Physics](#) - University of Massachusetts, Dartmouth College of Engineering

[Physics Clinical Assistant Professor Position](#) - NYU

[Associate/Full Professor, Experimental Atomic, Molecular, and Optical Physics](#) - Yale University

[Faculty and Associate Faculty Positions](#) - Perimeter Institute

[Assistant Professor in Biophysics](#) - University of North Texas in Denton

[Assistant Professor or Associate Professor in Photonics](#) - University of North Texas in Denton

[Assistant Professor in Energy](#) - University of North Texas in Denton

## **Postdoctoral Positions**

[2022 Perimeter Scholars International Fellowship](#) - Perimeter Institute for Theoretical Physics (deadline Apr. 15, 2022)

[Air Force Science & Technology Fellowships](#) (rolling deadlines Feb 1, **May 1**, Aug 1, Nov 1)

[Postdoctoral Associate Position in Theoretical Physics](#) - Yale University

[Product Development Engineer](#) - Hyperlight

[Integrated Photonics Research Scientist](#) - Hyperlight

## **Lab Positions**

[Lab Director, Undergraduate Quantum Education Laboratory](#) - the University of Chicago

## **Graduate Student and Postdoc Research**

[PhD position on JWST high-z galaxy studies](#) - University of Groningen (deadline Apr. 11, 2022)

[Experimental-Physics Education Specialist](#) - Scripps College

[Dudley Observatory Astronomer](#) - Siena College

## **Undergraduate Research**

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

- Research Assistant – Harm Reduction (send CV to Keyu Chen [keyuchen2020@gmail.com](mailto:keyuchen2020@gmail.com))

- Research Assistant – Data Analysis & Harm Reduction (send CV to Keyu Chen [keyuchen2020@gmail.com](mailto:keyuchen2020@gmail.com))

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

## Scholarship Opportunities

[Laura Bassi Scholarship](#) - Editing Press (deadlines Mar. 27, 2022 (Spring 2022) and July 27, 2022 (Summer 2022))

## Grant Opportunities

[Research Grants](#) - OPRA Association for Advancement of Research in Nuclear & Particle Physics (Deadline Apr. 14, 2022)

## Summer Schools

[Planetary Science Summer School](#) - Jet Propulsion Laboratory: May 9-August 5, 2022 (deadline Mar. 30, 2022)

[Advanced Cyperinfrastructure Training for Modeling Physical Systems](#) at Rensselaer Polytechnic Institute - Boot Camp: June 15-17, 2022 & Summer School: June 20-July 8, 2022 (deadline May 15, 2022)



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*For further information, or to contribute to the newsletter, please send email to [Daphne Klemme](#).*

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