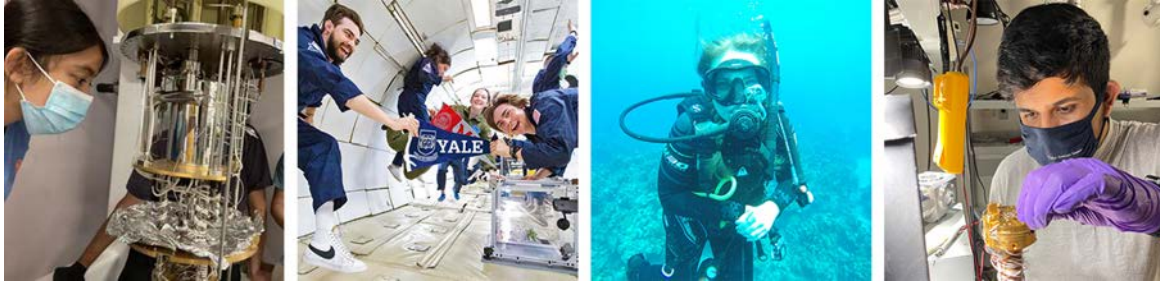


Yale Physics



Friday, April 8, 2022

Events

Monday, April 11

- All day **Quantum Week at Yale:** [Click here for full schedule and further information.](#)
- 12:30 pm **Yale Systems Biology Institute Seminar:** *Stochastic Thermodynamics of Distributed Systems*, David Wolpert, Santa Fe Institute, YSB, 352. Host: Ben Machta.
- 3:15 pm **Stellar Astrophysics Journal Club:** *The High-Energy Radiation Environment Around a 10 Gyr M Dwarf: Habitable at Last?* Kevin France, Girish Duvvuri, Hilary Egan, et al., Chris Lindsay, Yale University, zoom.
- 4:00 pm **Physics Club:** *Quantum matter, clock, and fundamental physics*, Jun Ye, JILA, SPL 59 & via [zoom](#), passcode: 863491. Host: Jack Harris. This event is part of Quantum Week at Yale.
- 4:00 pm **Molecular Biophysics & Biochemistry Joseph Coleman Memorial Lecture:** *Divergent Roles of Dicer's Helicase Domain in Antiviral Defense*, Brenda Bass, University of Utah, HOPE 110 & via [zoom](#). Host: Joan Steitz.
- 4:00 pm **Department of Chemistry Inorganic Chemistry seminar:** *A new era in solar energy conversion and optoelectronics enabled by the humble halide perovskites*, Mercouri G. Kanatzidis, Northwestern University, SCL 160.

Tuesday, April 12

- All day **Quantum Week at Yale:** [Click here for full schedule and further information.](#)
- 12:00 pm **Physics PostDoc and Research Scientists' TownHall:** [Inputs welcome here](#), WL 216 (lunch provided).
- 1:00 pm **Women and Gender Minorities in Science at Yale & Out in STEM Workshop:** *Name Change Workshop*, Kaiden Price (Yale University), Teddy Goetz (University of Pennsylvania), and Adelina Voutchkova-Kostal (George Washington University), via zoom. [RSVP for zoom link and to leave questions.](#)
- 2:30 pm **Yale Exoplanets and Stars Seminar:** *Providing new constraints on the surface composition of Europa (and beyond)*, Ishan Mishra, Cornell University, [zoom](#).
- 3:30 pm **High Energy Theory Seminar:** *The Geometric SMEFT Description of Curved*

[Higgs Field Space\(s\)](#), Michael Trott, Niels Bohr Institute, SPL 51. Host: Witold Skiba.

4:00 pm **Quantum Week at Yale Event:** [Quantum Computing and Global Affairs](#), Mark Ritter, IBM, GM Room, Horchow Hall ([register here](#)) or via zoom ([register here](#)). The event is co-sponsored by the Schmidt Program, Yale Quantum Institute and the Kimball Smith Series.

Wednesday, April 13

All day **Quantum Week at Yale:** [Click here for full schedule and further information.](#)

1:00 pm **Dissertation Defense:** [Quilting topological phases of matter with quantum thread: a Luttinger liquid love letter](#), Joseph Sullivan, Yale University, SPL 56. Advisor: Meng Cheng.

1:30 pm **Yale Quantum Week:** [Visualize Science 2022: Quantum Edition](#), at Wright Lab.

4:00 pm **Earth & Planetary Sciences Colloquium:** [Title TBA](#), Mauricio Ibañez Mejía, University of Arizona, KGL 123.

Thursday, April 14

All day **Quantum Week at Yale:** [Click here for full schedule and further information.](#)

12:00 pm **Yale Quantum Institute Distinguished Lecturer Seminar:** [Making Time Dependent Simulations Easier by Making them Time Dependent](#), Nathan Wiebe, University of Toronto, YQI Seminar Room and via [zoom](#).

1:00 pm **Nuclear Particle Astrophysics Seminar:** [Probing Fundamental Physics With Levitated Force Sensors](#), Alex Fieguth, Stanford University, WL 216 and via [zoom](#), password: 274644. Host: Michael Jewell.

2:30 pm **Yale Astronomy Virtual Colloquium:** [Title TBA](#), Chiara Mingarelli, University of Connecticut, please contact the Astronomy department for further information.

4:00 pm **Franke Program in Science and the Humanities:** [Mapping a Polycentric History of Renaissance Sound](#), Victor Coelho, Boston University, via [zoom](#), [Register in Advance for this webinar.](#)

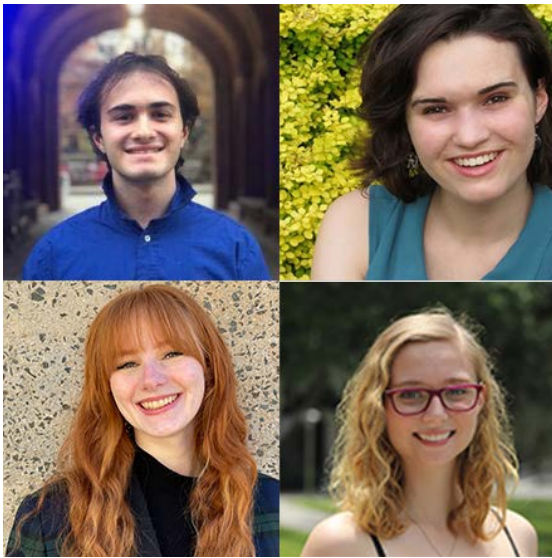
5:00 pm **Office of Career Strategy 2022 3-Minute Thesis Competition:** [The 3-Minute Thesis Competition](#) challenges Ph.D. students to describe their thesis work clearly and engagingly in just 3 minutes! We invite the Yale community to cheer on this year's 11 finalists in this live-streamed celebration of Ph.D. research and see who will be crowned the 2022 winner by our esteemed panel of judges. [Register](#) for in-person in Loria 250 (190 York St.) or [register](#) to live-stream via [zoom](#).

[More events](#)

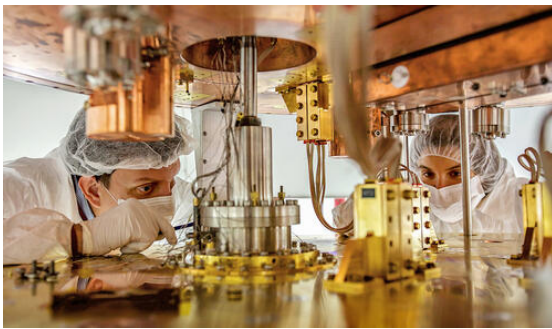
News

Yale Physics students awarded NSF Graduate Research Fellowships

Yale Physics congratulates undergraduate Matthew King (Physics and Astronomy - Particle Physics), postgraduate associate Claire Laffan (Physics and Astronomy - Particle Physics), graduate student Sierra



Wilde (Physics and Astronomy - Nuclear Physics) and graduate student Caitlin Gish (Physics and Astronomy - Physics of Living Systems) on being awarded 2022 NSF Graduate Research Fellowship Program (GRFP) fellowships.



CUORE team places new limits on the bizarre behavior of neutrinos

In a cavern under a mountain, physicists, including members of Yale Physics Department's Wright Lab, are using crystals far colder than solid air to study ghostly particles, hoping to learn secrets from the beginning of the universe.



Parker Henry, Applied Physics student with Jack Harris, successfully defends thesis

On March 31, 2022, Yale Applied Physics Graduate Student Parker Henry successfully defended his thesis, "Measuring the Knot of Non-Hermitian Degeneracies and Non-Abelian Braids" (Advisor: Jack Harris).

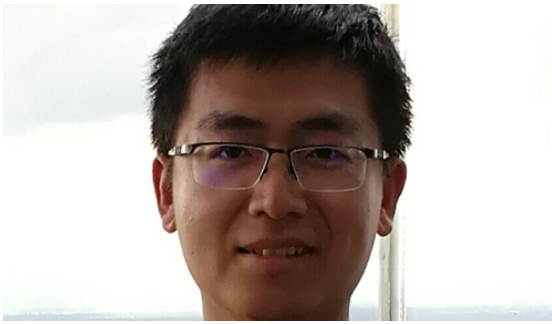


Luna Zagorac, student with Nikhil Padmanabhan, successfully defends thesis

On April 1, 2022, Luna Zagorac successfully defended her thesis, "A Light in the Dark: UltraLight Dark matter Phenomenology in Simulations". Advisors: Nikhil Padmanabhan (Yale University) and Richard Easter (University of Aukland).

Daming Li, student with John D. Murray, successfully defends thesis

On April 4, 2022, Daming Li successfully



defended his thesis, "Bistable Neural Dynamics Underlying Cognition and Spontaneous Activity: Computational Modeling and Empirical Analysis". Advisor: John D. Murray.



Kimmy Cushman: 3-Minute Thesis Competition

Kimmy Cushman, Ph.D. candidate with George Fleming and Vincent Moncrief, and 10 of her peers will be competing with live presentations. All are invited to celebrate their work. [Register](#) for the in-person event (limited seating) or [register](#) for live-streaming via zoom. All attendees will be able to vote for the People's Choice Award for best STEM presentation. [Learn more](#).

[More news](#)

Community

Climate and Diversity Committee News

Many faiths celebrate holidays in April. From the University Chaplain's office a list was sent including these holidays: sundown, April 2-May1 Ramadan (Islam), April 10 Palm Sunday (Christian), April 10 Rama Navami (Hindu), April 14 Holy Thursday (Christian), April 14 Mahavir Jayanthi (Jain), April 15 Good Friday (Christian), April 15 Memorial of Jesus' Death (Jehova's Witness), sundown April 16-23 Passover (Jewish), April 17 Easter (Christian), sundown April 20-May 1 Ridván (Bahá'í), April 24 Pascha (Orthodox Christianity), April 27 Yom Ha'shoah (Jewish). See the [Yale Chaplain's Office](#) for further information.

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

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

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

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

Scholarship Opportunities

[Laura Bassi Scholarship](#) - Editing Press (deadline 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

[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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