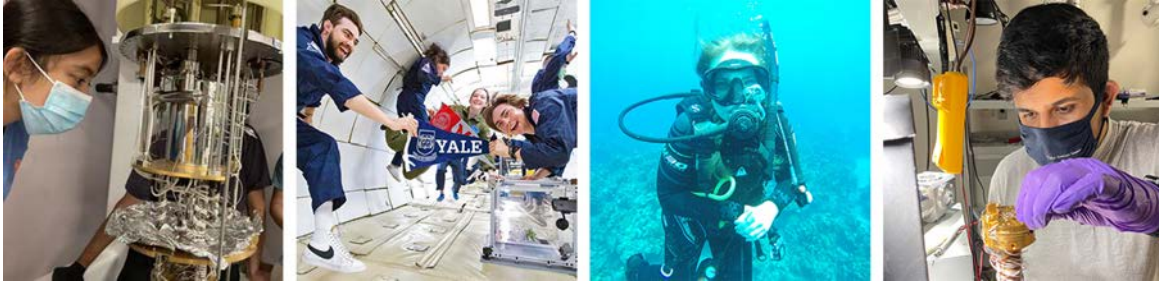


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# Yale Physics



**Friday, December 2, 2022**

## Events

### Monday, December 5

- 1:00 pm **Dissertation Defense:** *Low Energy Excess and Anomaly Search with MicroBooNE*, Kaicheng Li, Yale University, WL 216. Thesis Advisor: Bonnie Fleming.
- 4:00 pm **Physics Club:** *The James Webb Space Telescope: Revealing the Secrets of an Invisible Universe*, Allison Kirkpatrick, University of Kansas, SPL 57. Host: Meg Urry.
- 4:00 pm **Molecular Biophysics & Biochemistry Seminar - Paul Sigler**  
**Lecture:** *Molecular regulatory mechanism of the gene silencer PRC2*, Eva Nogales, University of California, Berkeley, HOPE 110. Host: Tony Koleske.
- 7:00 pm **Kimball Smith Series:** *Climate Change Solutions: Technology & Transnational Negotiations*, Panel Discussion: Susan Biniaz and Daniel Prober, Yale University, HRCH 103 (GM Room). [Register here](#).

### Tuesday, December 6

- 1:00 pm **Condensed Matter Theory Seminar:** *Topological Defects and Textures in Two-Dimensional Quantum Orders: Interplay Between Classical and Quantum Topology*, Yan-Qi Wang, University of California, Berkeley, SPL 63. Host: Meng Cheng.
- 3:00 pm **WIDG Seminar:** *Nearfield to Farfield Methods for Drone Beam Mapping*, Will Tyndall, Yale University, WLC 216. Host: Sierra Weyhmler.
- 4:00 pm **Particle Theory Seminar:** *AdS/CFT Correspondence for Scalar Field Theory in Lattice AdS<sub>2</sub>, AdS<sub>3</sub>*, Cameron Coghurn, Boston University, SPL 51. Host: Yuan Xin.

### Wednesday, December 7

- 1:00 pm **Department of Applied Physics - Solid State & Optics Seminar:** *Pushing the Boundaries of Topological Materials*, Dr. Robert Moore, Oak Ridge National Lab, ML 107. Host: Yu He.
- 2:00 pm - **Yale Quantum Institute Event:** *Entangled. Exploring the relationship between quantum technologies and the arts*, Event held in Dublin, Ireland (local time: 4:30 pm - 9:30 pm), Goethe-Institut Dublin.
- 4:00 pm **Department of Earth & Planetary Sciences Colloquium:** *Title - To be announced*, Alycia Stigall, Ohio University, KGL 123.
- 4:00 pm **Department of Chemistry Sigma Aldrich Lecture:** *Biocatalysis and Complex Molecule Synthesis*, Alison Narayan, University of Michigan, SCL 160.
- 4:15 pm **Department of Mathematics Colloquium:** *Braid varieties*, Evgeny Gorkiy, University of California, Davis, LOM 214.

## Thursday, December 8

- 1:00 pm **Condensed Matter Theory Seminar:** *Topological Order Subject to Local Errors: Error-Induced Phases and Phase Transitions*, Yimu Bao, University of California, Berkeley, SPL 63. Host: Meng Cheng.
- 1:00 pm **Nuclear-Particle-Astrophysics (NPA) Seminar:** *Neutrino Oscillations*, Shirley Li, University of California, Irvine, WL 216. Host: Fernando Flor.
- 2:00 pm - **Yale Quantum Institute Event:** *Sounding qubits: Music Performance & Book Launch*, Event held in London, UK (local time: 4:30 pm - 9:30 pm), Goethe-Institut London. [Get tickets - Eventbrite](#).
- 2:30 pm **Yale Astronomy Colloquium:** *Testing Fundamental Physics with the Event Horizon Telescope*, Lia Medeiros, Institute for Advanced Study, WTS A-51.

[More events](#)

## News



### Welcome Jinuk Kim!

Welcome to Jinuk Kim who comes to us as a postdoctoral associate from Seoul National University. He is working with Jack Harris.



### Graduate Recruiting at SACNAS and NSBP

Students and faculty represented Yale Physics at the 2022 SACNAS National Diversity in STEM Conference and the National Society of Black Physicists 2022 Conference.



## Ben McDonough (YC'2024) presents at QCS22

Ben McDonough (YC'2024 Physics (Intensive) major) was invited to present his paper "Software tools for autonomous error mitigation based on probabilistic error reduction" at the Third International Workshop on Quantum Computing Software.

[More news](#)

## Social Media This week



## Volodymyr Sivak successfully defends thesis

Volodymyr Sivak successfully defends thesis, "Quantum Error Correction Beyond Break-Even". Thesis advisor: Michel Devoret.

## Community

### Climate and Diversity

On November 16th, WiP+ held our first ally lunch of the school year! The topic we covered was "What does it mean to be an ally?" which led to some great discussions and reflections as a group. To follow up this event WiP+ has decided to put together our own guide to allyship do's and don'ts (inspired by [WOC for Progress](#)) based on our conversations that we will be sharing next week. In the meantime, we would like to share the definition of 'ally' that was reached during our event: "An ally is someone who is not a part of the identity in question but who is understanding of the issues the people in that group face and is working with them towards a solution. An ally is someone who sees, acknowledges, and validates the problems facing the group and advocates for that group and their needs."

*If interested in joining WiP+, please contact Caitlin Gish, Co-Chair of WiP+. You may contact the whole committee at [physics-wip-allies@mailman.yale.edu](mailto:physics-wip-allies@mailman.yale.edu)*



## PDAC Thanksgiving Potluck Photos

Over the Thanksgiving break, the Postdoctoral Advisory Committee organized a potluck for the postdocs, research scientists, and their guests in town. The cornucopia of snacks, drinks, meals and desserts (with lots of leftovers) made for a wholesome Thanksgiving!

## COVID-19 update

Yale COVID-19 Information - click here for updated information.

# Opportunities

## Faculty Positions

[Asst./Assoc./Full Professor in Experimental Quantum Science](#) - Yale University

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

[Assistant Professor in Biological Physics](#) - Yale University

[Assistant Professor in Experimental Nuclear Physics](#) - Yale University

[Assistant Professor in Astrophysics & Cosmology](#) - Yale University

[Assistant Professor, Applied Physics \(Quantum Information Theory\)](#) - Yale University (due date December 1, 2022, anticipated start date July 1, 2023)

[Assistant Professor, Applied Physics \(Experimental Condensed Matter Physics/Materials Science\)](#) - Yale University (due date January 3, 2023, anticipated start date July 1, 2023)

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

[Faculty Position in Experimental Physics](#) - Princeton University (application deadline **November 18, 2022** or until position is filled)

[Assistant Professor Position in Particle Astrophysics, Cosmology, and Gravitational Waves](#) - University of California, Riverside (application open through **December 31, 2022**, anticipated start date of July 1, 2023)

[Assistant/Associate Professor, Physics](#) - Hope College (deadline **December 31, 2022**)

[Tenure-track assistant professor position at ECE](#) - Princeton University (deadline **December 31, 2022**, preferred start date of September 1, 2023)

[Associate Professor Position in Particle Astrophysics, Cosmology, and Gravitational Waves](#) - University of California, Riverside (application open through **June 30, 2023**, anticipated start date of July 1, 2023)

[Assistant Professor Position in Experimental Quantum Information Science](#) - NYU (anticipated start date of **Sept. 1, 2023**)

## Research Scientist Positions

[Research Scientist, Relativistic Heavy-Ion Research Group](#) - Yale University

[Research Scientists \(CHORD radio telescope\) 5 Year Term](#) - Perimeter Institute

## Postdoctoral Positions

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

[Postdoctoral Research Associate/Fellow in Stellar Astrophysics](#) - University of Sydney (deadline **December 12, 2022**)

[Postdoctoral Position](#) - Universidad de la Serena [[further information](#)] (deadline **January 6, 2023**)

[AsteroSeismology Research Fellow, Physics and Astronomy](#) - University of Birmingham (deadline **January 23, 2023**)

[Prize postdoctoral fellowship at Johns Hopkins Physics and Astronomy](#) - Johns Hopkins University (application open through **February 8, 2023**, consideration of applications will begin on November 1, 2022)

## PhD Position

[PhD Positions in Quantum Condensed Matter Theory](#) - University of California, Santa Cruz (deadline **January 4, 2023**)

## Graduate Student and Postdoc Research

[Dudley Observatory Astronomer](#) - Siena College

[Positions for postdocs and graduate students affected by the war in Ukraine](#) - Perimeter Institute

[NRC Research Associateship Programs](#) - National Academies for Sciences, Engineering, Medicine (Online applications open as follows **December 1 (closes February 1)**, March 1 (closes May 1), June 1 (closes August 1), and September 1 (closes November 1))

[Perimeter Scholars International 2023](#) - Perimeter Institute (deadline **February 1, 2023**)

## 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))

[Physics REU: Interactions of Matter, Light & Learning](#) - Kansas State University (applications open December 2022, program dates May 29-August 4, 2023)

## Graduate Student and Postdoc Schools, Workshops, and Conferences

[UseQip: Explore Quantum Information Processing](#), May 29-June 9, 2023 - University of Waterloo (deadline **January 3, 2023**)

[Boulder School in Condensed Matter and Materials Physics 2023: Non-Equilibrium Quantum Dynamics](#), July 3-28, 2023 - University of Colorado, Boulder (deadline **January 15, 2023**)

## Grants, Fellowships and Scholarships

### Faculty

[Simons Emmy Noether Fellowship](#) - Perimeter Institute (deadline **January 9, 2023**)

### Graduate

[The Department of the Airforce Science & Technology Fellowship Program](#)

[2023 Dissertation and Postdoctoral Fellowship](#) - Ford Foundation (deadline **December 8, 2022**)

[Amplify Scholarship](#) - Optica (Deadline **December 9, 2022**)

## **Undergraduate**

[Amplify Scholarship](#) - Optica (Deadline **December 9, 2022**)

[2023 Predoctoral Fellowship](#) - Ford Foundation (deadline **December 15, 2022**)

[WAVE Fellowship](#) - Caltech (deadline **January 9, 2023**)

[Amgen Scholars](#) - Caltech (deadline **February 1, 2023**)



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*For further information, or to contribute to the newsletter, please send email to [Daphne Klemme](#). Alumni can add/update their information by [clicking here](#).*

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