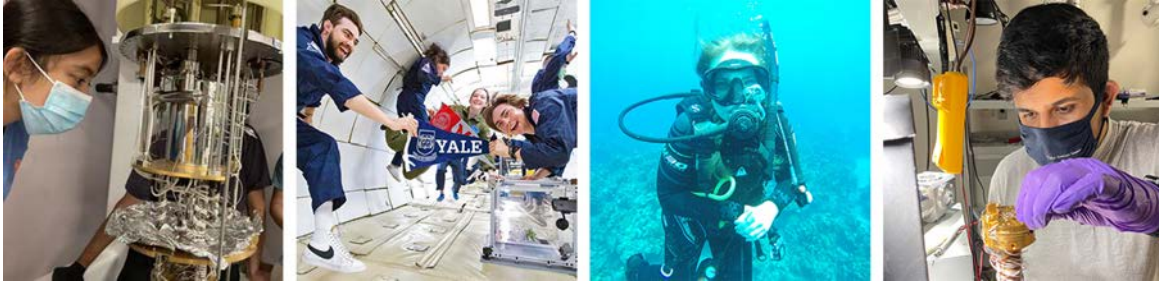


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# Yale Physics



**Friday, November 4, 2022**

## Events

### Monday, November 7

- 4:00 pm **Physics Club:** *More and Different: Novel Quantum Phases in Moire' Lattices*, Ashvin Vishwanath, Harvard University, SPL 57. Host: R. Shankar.
- 4:00 pm **Department of Chemistry Inorganic Chemistry Seminar:** *Stalking and Capturing Elusive Monomeric Copper Hydrides*, R Morris Bullock, Pacific Northwest National Laboratory, SCL 110.

### Tuesday, November 8

- 10:00 am **Dissertation Defense:** *Quantum Error Correction Beyond Break-Even*, Vladimir Sivak, Yale University, YQI Seminar room. Thesis Advisor: Michel Devoret.
- 12:00 pm **Terry Lecture Event:** *Informal Lunch with Speaker*, Karen Barad, University of California, Santa Cruz, STN TBD.
- 4:00 pm **Particle Theory Seminar:** *Probing New Gauge Forces with a High-Energy Muon Beam Dump*, Cari Cesarotti, MIT, SPL 51. Host: Bianka Mecaj.

### Wednesday, November 9

- 11:00 am **Yale Quantum Institute Talk:** *Title - To be announced*, Shilin Huang, Duke University, YQI Seminar Room.
- 1:00 pm **Department of Applied Physics Solid State & Optics Seminar:** *Physical design meets convex optimization: Hidden structure in Maxwell's (and Schrodinger's) equations*, Owen Miller, Yale University, YQI Seminar Room. Host: Hui Cao.
- 1:00 pm **Yale Systems Biology Institute Research in Progress Talk:** *Spatial multi-omics mapping of the hippocampus in healthy and major depressive disorder human brain*, Graham Su, Yale University, Yale West Campus Conference Center, rm. 216.
- 2:30 pm **Department of Mechanical Engineering and Materials Science Seminar:** *Vortex bursting and numerical methods for multiphysics flow simulations*, Wim

M. van Rees, MIT, ML 107. Host: Ian Abraham & Madhusudhan Venkadesan.

- 4:00 pm **Department of Molecular, Cellular and Developmental Biology Seminar:** *Using Drosophila melanogaster to investigate the molecular mechanisms underlying fat-to-ovary communication about diet*, Alissa Armstrong, University of South Carolina, Bass 305. Host: Valerie Horsley.
- 4:00 pm **Department of Earth & Planetary Sciences Colloquium:** *At the Speed of Volcanic Eruptions*, Terry Plank, Columbia University, KGL 123.
- 4:15 pm **Department of Mathematics Colloquium:** *Title - To Be Announced*, Jinyoung Park, Stanford University, LOM 214.

## Thursday, November 10

- 1:00 pm **NPA Seminar:** *Hadron Resonance Gas Model*, Jamie Karthein, MIT, WL 216. Host: Fernando Flor.
- 2:30 pm **Yale Astronomy Colloquium:** *Modeling the cosmological evolution of magnetic fields*, Romain Teyssier, Princeton University, WTS A-51.
- 4:00 pm **The Franke Program in Science and the Humanities:** *Architecture and Invention*, James Ramsey '99, Raad, HQ L02.
- 4:00 pm **Yale Science Communication Workshop:** *Getting Started in SciComm*, Dr. Rob Swanda, 17 Hillhouse, rm. 3. [RSVP here](#).

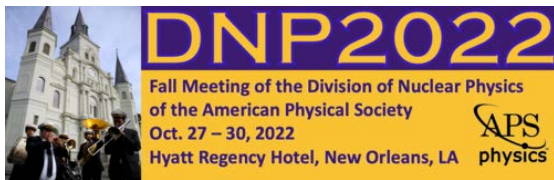
## Friday, November 11

- 11:00 am **Wright Lab Event:** *The Elusives Journal Club*, Members in the departments of physics and astronomy who work on dark matter and neutrino-related fields are invited to get together to discuss papers related to their field. Topics include: neutrinos, dark matter, BSM physics, fundamental symmetries, precision physics and more, WLC 245. Please email Jorge Torres for zoom connection information.
- 11:30 am **QBio Seminar:** *Structure, function and dynamics of the C. elegans nervous system*, Prof. Andrew Leifer, Princeton University, YSB 352. Host: Ben Machta.
- 12:00 pm **Wright Lab Lunch Discussion:** *From astrophysics to quantum computing*, Harvey Moseley, Quantum Circuits Inc., WL 216. [RSVP here by November 9th](#).
- 1:00 pm **Poorvu Academic Strategies Workshop:** *Why Study the Arts and Humanities?*, Are you interested in Arts and Humanities, but do you (or your family) feel concerned that they are not practical or profitable enough to spend time studying? This is a normal dilemma! This workshop guides students through a series of reflective questions about why the Arts and Humanities matter, and the way that the skills one learns through studying them (whether or not one majors in them!) can positively affect the course of one's career and life. Poorvu Center, rm. M104A.
- 3:30 pm **Physics Department Event:** *2022 Hoodie Ceremony*, Join us in welcoming our physics majors at the annual hoodie ceremony. The annual hoodie ceremony began in 2014 in order to acknowledge students who have formally declared as a physics major. There will be a reception with light snacks following the ceremony. Host: Sarah Demers (Director of Undergraduate Studies). [RSVP here](#).

[More events](#)

## News

**Yale Physics research well-**



## represented at the APS DNP 2022

From October 27-30, 2022, members of Wright Lab presented their research at DNP 2022.



## In Memoriam, Ashton Carter (1954-2022)

Ashton B. Carter, Yale College class of 1976 (Physics and Medieval History), died at the age of 68 of a heart attack at his home in Boston.

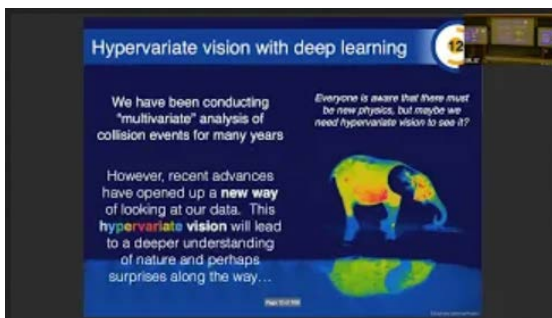


## Yale Physics Alumna Jia Chen named Chair of the GSAA board

The Yale Graduate School Alumni Association (GSAA) is excited to announce the appointment of Jia Chen ('00 Ph.D., Physics) as current chair of the board. Chen is a Global Product Leader at IBM, where she serves on IBM's Academy of Technology Leadership Team among other initiatives at the intersection of health, AI, and technology.

[More news](#)

## Social Media This week



## Physics Club on YouTube

The October 31, 2022 Physics Club was presented by Benjamin Nachman of Lawrence Berkeley National Laboratory on "Machine Learning for Fundamental Physics". See <https://youtu.be/Yf-vDn3zIXg> for the video.

## Community

### Climate News: Etiquette Tip of the week

#### Respect shared spaces

There are a few important tips to keep in mind when it comes to shared spaces both physical and virtual. Spaces you may share with team members include a kitchen, bathroom, printer and copy room, and lounge area. Virtual spaces you may share include Google Drive folders and project management software.

The way you treat shared spaces will reflect on you, so it's important that you label things correctly, stay organized, and respect others who also use these spaces. Etiquette applies to shared spaces whether you're cleaning up after yourself physically or following correct processes online.

*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 - [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

[Assistant Professor in Theoretical Physics](#) - University of California, Berkeley (Deadline **November 11, 2022**)

[Cluster hire in Quantum Information, Materials, Sensors, and their Applications](#) - Washington University in St. Louis (deadline **November 14, 2022**)

[Visiting Assistant Professor in Physics and Astronomy](#) - Siena College (deadline **November 15, 2022**)

[Assistant Professor, Department of Physics and Astronomy](#) - University of California, Davis (application deadline **November 18, 2022**, anticipated start date of July 1, 2023)

[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

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

[2023 Postdoctoral Fellowship](#) - Perimeter Institute (deadline **November 8, 2022**)

[Postdoctoral Prize Fellowship and Positions, Galaxies and Cosmology](#) - Max Planck Institute for Astronomy (MPIA) in Heidelberg (deadline **November 23, 2022**)

[Postdoctoral Scholar position in Quantum Condensed Matter Theory](#) - University of California, Santa Cruz (deadline **December 1, 2022**)

[Postdoctoral Research Associate](#) - Brown University (deadline **December 1, 2022**)

[Sullivan Prize Postdoctoral Fellowship in Astrophysics](#) - Indiana University (deadline **December 2, 2022**)

[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

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

[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))

## 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))

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

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

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

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

[Go Beyond: Postdoc Preview](#), October 28-30, 2022 - University of Notre Dame

[Quantum Creators Prize Symposium 2022](#), November 14-15, 2022 - The Chicago Quantum Exchange and the University of Chicago

[iid2022: Statistical Methods for Event Data](#), November 15-19, 2022 - University of Alabama in Huntsville

[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

[Wilson Fellowship](#) - Fermilab (Deadline **November 4, 2022**)

### Graduate

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

*Chair/Faculty may nominate up to 3 PhD students for each of the PhD Fellowship programs from your department.*

[2023 Two Sigma PhD Fellowship](#) (Deadline **November 4, 2022**)

[2023 Two Sigma Diversity PhD Fellowship](#) (Deadline **November 4, 2022**)

### Undergraduate

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

*There are two ways to submit the application: either a faculty/staff member from their department can submit on their behalf or the student can apply directly.*

[2023 Two Sigma Undergraduate Scholarship](#) (Deadline **November 4, 2022**)

[2023 Two Sigma Diversity Undergraduate Scholarship](#) (Deadline **November 4, 2022**)



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

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