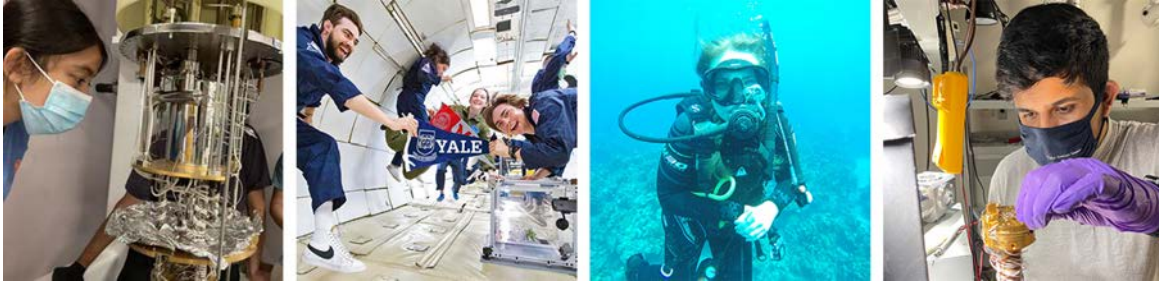


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# Yale Physics



**Friday, October 7, 2022**

## Events

**Monday, October 10**

4:00 pm **Physics Club:** *Creating entangled quantum systems using tweezer arrays*, Manuel Endres, Caltech, SPL 57. Host: Nir Navon.

**Tuesday, October 11**

10:30 am **Yale Quantum Institute Talk:** *Spintronics in flatland: controlling magnetism in heterostructures based on 2-dimensional van der Waals magnets*, Vishakha Gupta, Cornell University, YQI Seminar Room.

12:00 pm **WIDG Seminar:** *Searching for Dark Matter via a Levitated Microsphere Array*, Benjamin Siegel, Yale University, WL 216. Host: Jiaxiang Wang.

1:00 pm **AMO Seminar:** *The  $2N+1$  many-body problem; an impurity immersed in a spin  $1/2$  fermionic superfluid*, Frédéric Chevy, Ecole normale supérieure, SPL 51. Host: Nir Navon.

12:00 pm **Yale Quantum Institute Professional Development Series:** *Science Communication: Take Charge of It!*, Matteo Rini, American Physical Society, YQI Seminar Room. [Register here](#).

4:00 pm **Particle Theory Seminar:** *Gravity as a Gapless Phase*, Gregoire Mathys, Cornell University, SPL 51. Host: Petar Tadic.

**Wednesday, October 12**

2:30 pm **Mechanical Engineering and Materials Science Seminar:** *Traffic jams, U-turns, and diodes: The physics of microbial transport*, Jeffrey Guasto, Tufts University, ML 107. Host: Amir Pahlavan.

4:30 pm **Nobel Prize in Physics 2022 Lecture:** *Spooky Action at a Distance wins the Nobel Prize*, A. Douglas Stone, Yale University, SPL 57. Host: Sarah Demers.

**Thursday, October 13**

1:00 pm **Nuclear Particle Astrophysics Seminar:** *SBND Installation and Commissioning*, Monica Nunes, Fermilab, WL 216. Host: Avinay Bhat.

2:30 pm **Yale Astronomy Colloquium: *A Collage of Exoplanets on the Mass-Period Diagram***, Ji Wang, Ohio State University, WTS A-51.

## Friday, October 14

9:00 am **Department of Cell Biology Special Seminar: *Probing the Nanoscale Membrane Deformations in Cells***, Dr. Wenting Zhao, Nanyang Technological University, Singapore, SHM C-428. Host: Xiaolei Su.

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. Host: Jorge Torres. [Email for zoom connection information](#).

1:30 pm -  
4:00 pm **Poorvu Center for Teaching and Learning & Yale University Art Gallery: *STEM in the Museum: Teaching Skills and Content through Art***, Speakers: Meg Urry (Yale University), Bahram Moasser (University of Notre Dame), Cynthia Taylor (Oberlin College), Jennifer Cholnoky (Skidmore College), and Sarah Petersen (Kenyon College), 301 York St., rm. 120A-B. [Register here](#).

[More events](#)

## News



### In Memoriam: Mary Anne Schulz

Mary Anne Schulz passed away September 29, 2022 at her home. She was born January 15, 1938 in New Haven, and lived her entire life in this city she loved. Mary Anne worked for Yale University at Wright Nuclear Structure Lab (WNSL, now Wright Lab) for 46 years, where she fortuitously met her husband Steve. Mary Anne loved her job at WNSL and cared deeply for the people she worked with.

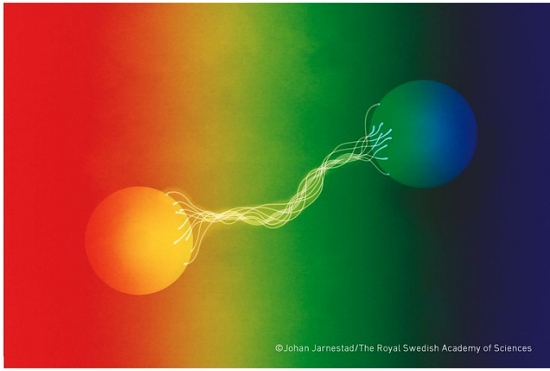


### Murray receives Yale Faculty Innovation Award

John Murray, Associate Professor in Psychiatry and Physics, has won a Yale Faculty Innovation prize for his company Manifest Technologies.

### New Lecture on the Nobel Prize in Physics

The Yale Physics Department is introducing a new lecture on the Nobel Prize in Physics geared towards undergraduate students and the general public. The initial lecture will be held on October 12, 2022 and presented by



A. Douglas Stone of the Applied Physics Department.

[More news](#)

## Social Media This week



### Sarah Demers in AIP Oral History Interview

Sarah Demers, professor of physics and a member of Yale's Wright Lab, was interviewed by David Zierler for the American Institute of Physics (AIP) Oral History interviews, which offer unique insights into the lives, works, and personalities of modern scientists. Among the top posts for the month on social media.

## Community

### Climate and Diversity News

#### GAINS Conference Volunteer Opportunities

Some of you in our community volunteered at the remote **Girls Advancing in Stem (GAINS) conference** last Spring, giving **technical talks, workshops, or tours**, or participating in a **career mixer** for high school girls from across the nation who are interested in pursuing academic or professional futures in STEM. GAINS is excited to return to Yale for an in person conference this November and we would love for you to **be involved again or for the first time!** *Note: These are going to be different students than last time so feel free to offer the same programming!*

The GAINS Conference would not be a success without the help of many volunteers at our hosting institution! We are looking for Yale researchers (faculty, postdoctoral fellows, or graduate students) who would like to offer a bit of their time to support this conference. If you are interested, please [REGISTER TO VOLUNTEER](#) to give a **technical talk, workshop, or tour**, and/or to participate in a **career mixer**. Questions? Feel free to contact [Victoria Misenti](#) for more information.

*The GAINS conference is a school-based event for high school girls interested in STEM. Teachers register themselves and up to 6 student participants from their school. Registration is a multi-step process that is initiated by teachers!*

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

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

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

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

[Assistant Professor of Physics](#) - University of Oregon (application deadline **October 15, 2022**)

[Tenure-Track Assistant Professor in Biophysics](#) - Johns Hopkins University (deadline **October 20, 2022**, anticipated start date of July 1, 2023)

[Assistant Professor Position in Quantum Condensed Matter and Atomic Molecular and Optical Physics](#) - NYU (review of applications will begin **November 1, 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**)

[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

[Postdoc position in research and science communication](#) - Yale University (application deadline **October 1, 2022**)

[Postdoctoral Research Associate - Experimental Nuclear/Particle Physics](#) (multiple positions) @ UMass Amherst

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

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

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

[Dicke Fellow - Associate Research Scholar](#) - Princeton University (deadline **October 21, 2022**)

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

[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))

[Spring 2023 Undergraduate Internships](#) - DOE Office of Science (applications due **October 5**)

## 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

## Grants

[NASA CT Space Grant Consortium](#) (deadline **October 13, 2022**)

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