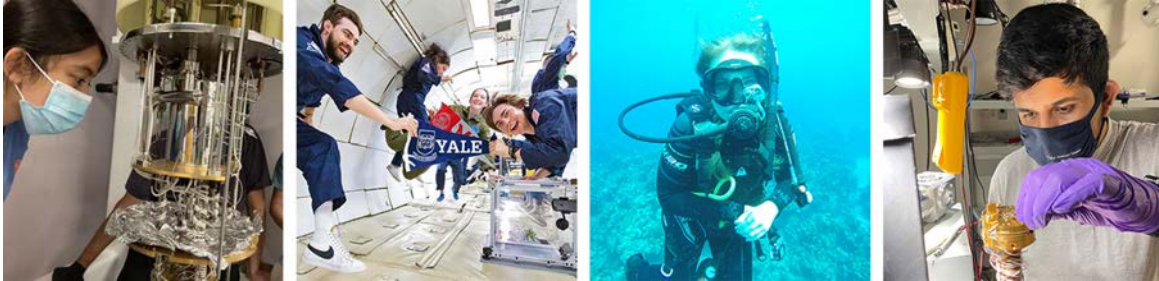


To view this email as a web page, go [here](#).

Yale Physics



Friday, April 7, 2023

Events

Monday, April 10

- 9:30 am **Dissertation Defense:** *Piezo-Brillouin electro-optomechanics with high-overtone bulk acoustic resonators*, Taekwan Yoon, Yale University, YQI Seminar room. Thesis Advisor: Rob Schoelkopf.
- 3:30 pm **Physics Club:** *IceCube and the birth of high-energy neutrino astrophysics*, Ignacio Taboada, Georgia Institute of Technology, SPL 57. Host: Reina Maruyama.
- 4:00 pm **Molecular Biophysics & Biochemistry Seminar:** *Functional Flexibility of Intrinsically Disordered Proteins in Mediating Tardigrade Desiccation Tolerance*, Thomas Boothby, University of Wyoming, Laramie, HOPE 110. Host: Karla Neugebauer.

Tuesday, April 11

- 10:00 am **Dissertation Defense:** *Semi-Inclusive Measurement of the Shared Groomed Momentum Fraction of Jets in Au+Au Collisions at STAR*, Daniel Nemes, Yale University, WL 216. Thesis Advisor: Helen Caines.
- 12:00 pm **Yale Astronomy Astro x Data Science Seminar:** *Safe and Computationally Efficient Space Exploration: A Data-Driven Approach*, Julia Briden, MIT, 46 Hillhouse conference room + zoom.
- 4:00 pm **High Energy Particle Theory Seminar:** *On Causality Conditions in de Sitter Spacetime*, Rachel A. Rosen, Carnegie Mellon University, SPL 51. Host: Yuan Xin.
- 4:00 pm **Yale School of Engineering & Applied Science - 2nd Annual Increasing Human Potential Symposium:** *Planetary Solutions driving Sustainability*, Yale University + Friends of Yale from Industry (FYI), Davies Auditorium.

Wednesday, April 12

- 1:00 pm **Solid State & Optics Seminar:** *Classical and Quantum Optics of Random Media*, John Schotland, Yale University, Location TBD.

- 2:00 pm **Atomic Physics Seminar:** *Laser-cooled molecules for quantum science and controlled organic chemistry*, Daniel McCarron, University of Connecticut, SPL 48. Host: Nir Navon.
- 2:00 pm **Physics & QBio Hageromo Hour:** *Minimal frustration in the regulation of cell-fate choice*, Shubham Tripathi, Yale University, SPL 51. Hosts: Michael Abbott, Isabella Graf, and Mason Rouches.
- 4:00 pm **Earth & Planetary Science Colloquium:** *Title To Be Announced*, Alberto Vitale-Brovvarone, University of Bologna, KGL 123.
- 4:00 pm **The Franke Program in Science and the Humanities:** *Histories and Counter-Histories of CGI in Movies*, Theodore Kim, Yale University, HQ L01.
- 4:15 pm **Department of Mathematics Colloquium:** *Title To Be Announced*, Javier Gomez Serrano, Brown University, LOM 214.
- 7:00 pm **Kimball Smith Series:** *Arms Races in Outer Space: Physics and Politics*, Panel: Laura Grego (Senior Scientist and Global Security Research Director, Union of Concerned Scientists) and Gershon Hasin (Martin R. Flug Visiting Lecturer in Law, Yale Law School), RSN. Host: Talia Weiss.

Thursday, April 13

- 1:00 pm **NPA Seminar:** *Direct Detection of Dark Matter using Quantum Sensors and Techniques*, Kartik Ramanathan, Caltech, WL 216.
- 2:30 pm **Yale Astronomy Colloquium:** *The Maunakea Spectroscopic Explorer*, Andy Sheinis, Canada France Hawaii Telescope (CFHT), WTS A-51.

Friday, April 14

- 9:00 am - 1:00 pm **Yale Quantum Institute:** *World Quantum Day 2023*, 17 Hillhouse, 4th Floor and other locations.
- 11:30 am **QBio / PEB Seminar:** *Capillary attraction underlies bacterial collective dynamics*, Ned S. Wingreen, Princeton University, YSB 352. Host: Jing Yan.
- 1:00 pm **Wright Lab - YPPDO Seminar:** *Yale Physics to Used Cars: Transitioning to a Data Science Career*, Chris Davis, Carmax, WLC 245. Host: Reina Maruyama.
- 3:00 pm **Yale School of Engineering & Applied Science - Diverse Leaders Seminar:** *Establishing the Research in Engineering and Interdisciplinary Design (REID) Lab: A Decade of Creative Intersections of Mechanical Engineering, Interdisciplinary Design, and Diverse Perspectives*, Tahira Reid Smith, Penn State University, ML 221.

Saturday, April 15

- All day **Yale Physics Department Event:** *Yale Physics Olympics*, Stephen Irons, Yale University. All events in Sloane Physics Lab. [Click here for further information.](#)

Save the dates!

- April 21 Sigma Pi Sigma induction ceremony.
- April 24 Yale Bulldog Days (April 24-26)
- April 28 Reading Period starts (April 28-May 3) and the Howard L. Schultz Sr. Prize Lecture
- May 1 Undergraduate Research Presentations (May 1-3)
- May 4 Final examinations (May 4-10)
- May 21 Graduate School Convocation
- May 22 Yale Commencement

More events

News



Congratulations Dr. Timgren!

On March 31, 2023, Oskari Timgren successfully defended the thesis “Progress towards a measurement of time-reversal symmetry violation in thallium fluoride” (advisor: Steve Lamoreaux).



Nikhil Harle



Alejandro Simon



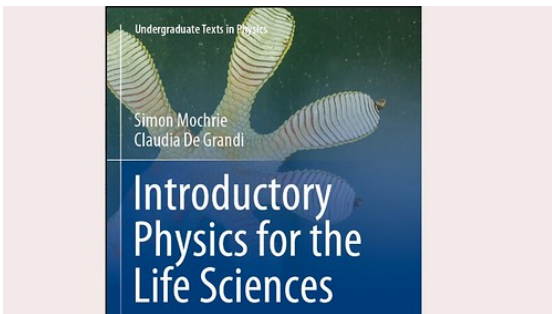
Molly Watts



Graduate Research Fellowship Program

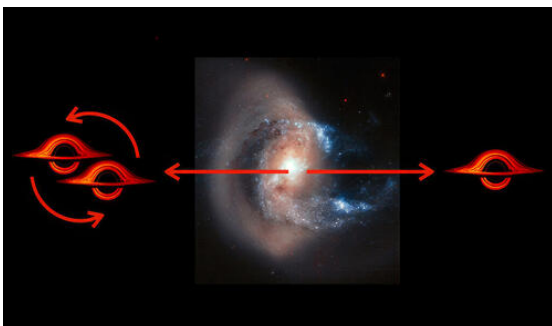
Students awarded NSF Graduate Research Fellowships

Congratulations to the following Yale Physics students and alumni, who were each awarded a 2023 NSF Graduate Research Fellowship (NSF GRFP). Nikhil Harle, Alejandro Simon, and Molly Watts. Honorable mentions to Dawson Thomas, Eleanor Graham, Laura Zhou, and Isabel Sands.



Mochrie & De Grandi textbook published

Just published by Springer Books, Introductory Physics for the Life Sciences by Simon Mochrie (Yale University) and Claudia De Grandi (University of Utah, formerly of Yale University).



Van Dokkum research in the news

Yale astronomers are on the lookout for a “runaway” black hole — a supermassive black hole that was catapulted away from the center of its host galaxy by the gravitational force of multiple black holes interacting at once.

More news

Community



Welcome Donna Kennedy

Donna Kennedy is a senior administrative assistant in Sloane Physics Lab. Donna is married and has two grown boys and a dog. She is a life long resident of West Haven and resides near the beach. She comes to Yale University from Milford Public Schools where she was the secretary to the Principal. Prior to MPS, she worked at the University of New Haven, primarily in the Registrar's Office. She is passionate about helping anyone in need and showing them kindness. In her spare time, she loves to tend to her flower and fruit gardens, hiking with her husband, crafting cards and spending time with her family and friends.

She is looking forward to working with the Staff, Faculty and Students in the Physics Department.

Climate and Diversity Committee News

Yale Celebrates Arbor Day!

In celebration of National Arbor Day, join Yale experts for our annual "walk and talk" on **Friday, April 28, from noon to 1 p.m.**

We'll begin our adventure at the West Campus Farm with farm and café operations manager Jordan Williams for a tour of this living laboratory where students enrich their studies and explore the relationships between food, farming, people, and the planet. Our journey continues with an exploration of the West Campus woodland trail with Yale Peabody Museum naturalist Jim Sirch. Around every corner, we'll be on the lookout for fascinating features of this thriving ecosystem, including a maple sugar bush and a grove of trees planted in recognition of several Yale staff members' service anniversaries.

Following the walk, mix and mingle over light refreshments at the West Campus Barn. Attendees will receive a tree seedling they may take home to plant and nurture.

Wear comfortable walking shoes and bring your binoculars to spot local bird species along the way. (We'll have a few extras handy to borrow, too.)

Ample parking is adjacent to the farm and free of charge. Alternatively, Yale's shuttle service from the New Haven campus is available via the green and purple lines. See [directions](#), [parking](#), and [West Campus shuttle details](#).

[Register for the Nature Walk.](#)

This event is in support of Yale's participation in the Tree Campus Higher Education Program, an Arbor Day Foundation program that helps colleges and universities establish and sustain healthy community forests. It is sponsored by Yale's Office of Public Affairs & Communications, Being Well at Yale, Sustainability, the Urban Resources Initiative at the School of the Environment, West Campus, and the Yale Peabody Museum.

(Rain date: Friday, May 5, from noon - 1 p.m.)

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

Outreach / Community News / Social media



Open Labs wins Ivy Award

Open Labs, a graduate student organization that works with local students and families to inspire an interest in science (recipient of the Graduate and Professional Student Ivy Award).

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

[Assistant Professor, Applied Physics \(Experimental Condensed Matter Physics/Materials Science\)](#) - Yale University

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

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

Postdoctoral Positions

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

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

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

Meetings, Schools, Workshops, and Conferences

[Black in Physics Career Development: Session 1](#). Tenure & Time Management, April 27, 2023.

[Responsible AI In the Natural Sciences: a mini workshop](#), May 8, 2023 - Carnegie Mellon University. *Note: Savannah Thais is an invited speaker.*

[3rd Biennial NSF/GPAP Summer School on Plasma Physics for Astrophysicists](#), May 29-June 2, 2023 - Swarthmore College

[Summer School in Statistics for Astronomers XVIII](#), June 5-9, 2023 - Penn State (deadline **May 5, 2023**)

[Conference: Statistical Challenges in Modern Astronomy VIII](#), June 12-16, 2023 - Penn State (registration deadline **May 5, 2023**)

[Black in Physics Career Development: Session 2](#). Every Semester Needs a Plan, June 22, 2023.

[STAQ Quantum Ideas Summer School](#), June 9-23, 2023 - Duke University

[The 3rd Condensed Matter Summer School, "Dynamics and Quantum Information in Many-body Systems"](#), June 12-21, 2023 - University of Minnesota-William I. Fine Theoretical Physics Institute. *Note: Michel Devoret is one of the speakers.*

[Boulder School for Condensed Matter and Materials Physics, "Non-Equilibrium Quantum Physics"](#), July 3-28, 2023 - University of Colorado, Boulder. *Note: Steve Girvin is one of the lecturers.*

[Advanced Cyberinfrastructure Training for Modeling Physical Systems](#), June 14-July 7, 2023; Bootcamp June 14-16, 2023 - Rensselaer Summer Program (deadline **May 1, 2023**)

[Physics of Life - CPBF Summer School](#), June 19-30, 2023 - Princeton University

[2023 Summer School](#), June 25-July 15, 2023 - Wolfram (must be 18 or older by June 24, 2023 to apply)

[2023 SLAC Summer Institute](#) (SSI 2023), August 7-18, 2023 - Stanford University

[2023 Dunlap Institute Summer School - Introduction to Astronomical Instrumentation](#), August 8-11, 2023 - University of Toronto

[XVIII International Conference on Topics in Astroparticle and Underground Physics 2023](#), August 28-September 1, 2023 - University of Vienna, [conference fees and registration](#) (early

fee deadline **July 1, 2023**; full fee deadline **August 15, 2023**). *Note: David Moore is an invited speaker.*

EXCESS23@TAUP, August 26, 2023 - University of Vienna

[Young Astronomers on Galactic Nuclei](#) - Istituto di Astrofisica Spaziale e Fisica Cosmica, October 18-20, 2023, [apply here](#) (application deadline **May 31, 2023**)

Grants, Fellowships and Scholarships

Graduate

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



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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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