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# Yale *Physics*



## Week of September 3-9, 2023

### Events

#### Monday, September 4

All day **University Holiday.** The physics department administrative office is closed for observance of the Labor Day holiday.

#### Wednesday, September 6

- 9:00 am **Wright Lab Event:** *Wright Lab Resources Presentation*, We invite members of our community, in particular new members, to an overview presentation about Wright Lab resources, WL 216.
- 1:00 pm **Physics Dissertation Defense:** *Nuclear Spectroscopy of Heavy Nuclei in the Shell Model Monte Carlo Method*, Sohan Vartak, Yale University, zoom. Thesis advisor: Yoram Alhassid.
- 4:00 pm **Molecular, Cellular and Developmental Biology Seminar:** *The role of enhancer RNAs in stimulating transcription*, Claus-Dieter Kuhn, University of Bayreuth Germany, Bass 305. Host: Yannick Jacob.
- 4:00 pm **Earth & Planetary Science Colloquium:** *As the worm turned: Pyrite burial under low bioturbation intensity and implications for Paleozoic oxygenation*, Maya Gomes, Johns Hopkins University, KGL 123.

#### Thursday, September 7

- 1:00 pm **Wright Lab Event:** *Fall 2023 EHS Orientation for Wright Lab Research Shop Users*, Wright Lab will host two, identical 1-hour Environmental Health and Safety (EHS) Shop Orientations on Thursday, September 7 at 1 p.m. and Tuesday, September 12 at 2:30 p.m., WL 216. Sign up for EHS orientation.

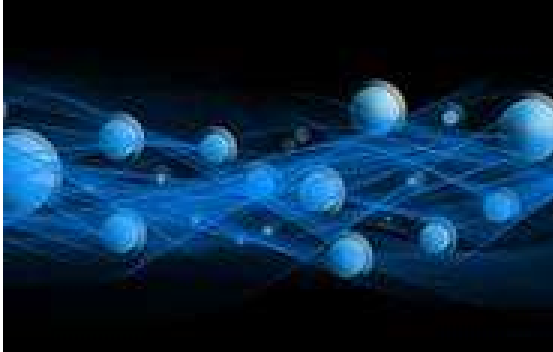
#### Friday, September 8

- 11:00 am **Elusives Journal Club:** *New Constraints on Dark Photon Dark Matter with Superconducting Nanowire Detectors in an Optical Haloscope*, Eleanor Graham, Yale University, WLC 245. Host: Xiran Bai. Reading.
- 2:00 pm **Applied Physics Seminar:** *Space-time optics: a new frontier in structuring light fields*, Murat Yessenov, University of Central Florida, YQI Seminar Room +

zoom (password: 407077). Host: Logan Wright.

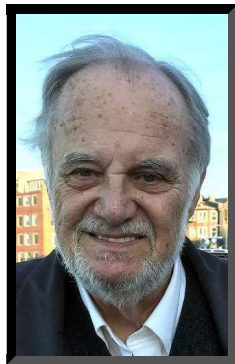
[More events](#)

## News



### **With NSF Grant, a New Ph.D. Training Program in Quantum Materials**

With a \$3 million grant from the National Science Foundation (NSF), Yale is creating an interdisciplinary Ph.D. training program in the area of quantum materials science and engineering.



### **In Memoriam - Albert R. "Skip" Weldon**

Former Physics Business Manager, Albert R. "Skip" Weldon, passed away on August 21, 2023, surrounded by his family and in the compassionate care of staff at Yale-New Haven Hospital. For the last 30 years of his career, Skip enjoyed positions at Yale University in auditing and business management.

## **Welcome to the Graduate Class of 2023!**

Starting with the August 4th issue of the departmental newsletter, we are featuring brief articles introducing the graduate class of 2023. Look for them in our buildings and let's make them feel welcome.



### **Ryan Everly**

I am interested in AMO Physics and I was an amateur/collegiate boxer while studying at Berkeley.



## Ryan Hamilton

I am interested in High energy particle physics and experimental probes of QCD, Heavy Ion Collisions and QGP, phenomenology, jet physics and I make digital art in my spare time.



## Morgan Knuesel

I'm interested in how Quark-Gluon Plasma (QGP), an exotic state of matter present in the very early universe, forms and evolves. To study QGP, facilities such as the Large Hadron Collider at CERN and the Relativistic Heavy Ion Collider at Brookhaven National Laboratory collide heavy ions at relativistic energies. I'm curious about what the QGP can tell us about the early universe and the Standard Model. When I'm not studying or working on research, I can probably be found at an ice rink pursuing my goals in figure skating!

[More news](#)

## Community

### Climate and Diversity Committee News

[Yale College cultural centers](#) act as social hubs and community bases for students from various cultures or ethnicities, supplementing the social environment of the larger Yale College community. For staff, Yale has invested in the development of [affinity groups](#) or employee resource groups. Each of the eight groups support recruitment, retention, education, advocacy, and community building.

*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)*

### Outreach



## 2023 Pathways to Science Summer Scholars

In July 2023, members of the Wright Lab community taught three week-long workshops and two enrichment sessions for the 2023 Pathways Summer Scholars—a free two-week summer science program exclusively for over 100 high school students from the Yale Pathways to Science program.

## COVID-19 Update

[Yale COVID-19 Information](#) - including updates on testing and vaccinations.

# Opportunities

## Faculty Opportunities

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

[Assistant Professor position in the fields of Neutrino Physics, Particle Astrophysics, Cosmology and Gravitational Waves](#) - UC Riverside (deadline **November 19, 2023**)

[Tenure-track faculty position in Quantum Condensed Matter Theory](#) - Brown University (application deadline **November 30, 2023**)

[Two tenure-track Assistant Professor positions in experimental physics](#) - Illinois Wesleyan University

[Faculty positions in experimental and theoretical physics](#) - King Fahd University of Petroleum and Minerals, Physics Department

## Postdoctoral Opportunities

[Stanford Molecular Imaging Scholars \(SMIS\) Program](#) - Stanford University (deadline **September 4, 2023**)

[Post-Doctoral Fellowships in Space Security](#) - Outer Space Institute, University of British Columbia (deadline **September 15, 2023**)

[Stanford Cancer Imaging Training \(SCIT\) Program](#) - Stanford University (deadline **October 1, 2023**)

[Dicke Fellow](#) - Princeton University (deadline **October 20, 2023**)

[2024 Yale Quantum Institute Postdoctoral Fellowship](#) - Yale University, YQI (deadline **October 29, 2023 at 11:59pm ET**)

[Postdoc Position in Theoretical Condensed Matter and Computational Biophysics](#) - UC Riverside

[Experimental Postdoctoral Position in Electron-Positron Plasmas](#) - UC Riverside

## Graduate Student Opportunities

[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)**)

[Foreign Affairs Information Technology Fellowship](#) - U.S. Department of State (deadline **January 16, 2024**), [Webinar](#) for more information.

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

## Undergraduate Student Opportunities

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))

[Foreign Affairs Information Technology Fellowship](#) - U.S. Department of State (deadline **January 16, 2024**), [Webinar](#) for more information.

## Meetings, Schools, Workshops, and Conferences

[American Physical Society Conferences for Undergraduate Women in Physics \(CUWiP\)](#), January 19-21, 2024 - nearest locations are: Boston University & Wellesley College; City University of New York, Graduate Center; or United States Military Academy, West Point. The 2024 Millie Dresselhouse CUWiP Keynote Speaker is [Dr. Jocelyn Bell Burnell](#), Royal Society of Edinburgh. **Applications close October 23, 2023.**



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