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# Yale Physics



## Week of September 24-30, 2023

### Events

#### Monday, September 25

- All day **Wright Lab Event. *ALPHA Collaboration Meeting***, The ALPHA Collaboration will have a 2-day meeting in WL 216 from Sept 25-26.
- 3:30 pm **Physics Club. *Symmetries of Time***, Frank Wilczek, MIT, SPL 57 + [zoom](#), password: 595687. Host: Reina Maruyama.

#### Tuesday, September 26

- All day **Wright Lab Event. *ALPHA Collaboration Meeting***, The ALPHA Collaboration will have a 2-day meeting in WL 216 from Sept 25-26.
- 11:00 am **Yale Quantum Institute Professional Development Series. *Intellectual Property 101***, Robert Migliorini, Yale Ventures, YQI Seminar room.
- 1:00 pm **Yale Quantum Institute Talk. *Beyond two-level approximation in transmon arrays: Collective dynamics and Superradiance***, Matti Silveri, University of Oulu, YQI Seminar room + [zoom](#).
- 4:00 pm **Particle Theory Seminar: *The connection between finite density and spontaneous symmetry breaking for interacting scalar fields***, Alessandro Podo, Columbia University, SPL 48.
- 5:30 pm **History and Foundations of Physics Meeting 3.1: *Replication in Science***, HQ C65. [Collins reading](#) and [Franklin reading](#).

#### Wednesday, September 27

- All day **Wright Lab Event. *HAYSTAC Collaboration Meeting***, The HAYSTAC Collaboration will have a 2-day meeting in WL 216 from Sept 27-28.
- 2:00 pm **AMO Seminar: *Far-from-equilibrium Quantum Gas in a Box***, Zoran Hadzibabic, Cambridge University, SPL 51. Host: Nir Navon.
- 3:00 pm **School of Engineering & Applied Science: *Dean's Invited Speaker Series***, Kathryn Guarini, IBM, TSAI City. A prolific researcher, writer, and innovator who routinely tops industry lists of leading women in technology, Kathryn Guarini

studied applied physics at Yale and has built a long career in technical innovation strategy and leadership development at IBM, where she has served as CIO since March 2021. [Registration](#).

- 4:00 pm **Department of Mathematics Colloquium:** *Postdoc Intro talks*, Or Landesberg and Kevin O'Neill, Yale University, KT 219.
- 4:00 pm **Department of Chemistry Sigma-Aldrich Organic Chemistry Lecture:** *Deaminative Cross-Couplings*, Mary P. Watson, University of Delaware, SCL 110. Host: Scott Miller.

## Thursday, September 28

- All day **Wright Lab Event. HAYSTAC Collaboration Meeting**, The HAYSTAC Collaboration will have a 2-day meeting in WL 216 from Sept 27-28.
- 1:00 pm **Condensed Matter Seminar:** *Strangeness from electron-phason scattering in moiré superlattices*, Hector Ochoa, Columbia University, SPL 51. Host: Meng Cheng.
- 1:00 pm **Kimball Smith Series Seminar:** *Walking the World Back from the Nuclear Brink: What can Scientists do?*, Sebastien Philippe, Princeton University, SPL 57. Hosts: Talia Weiss and Chris Rostampour.
- 1:00 pm **Special Solid State & Optics Seminar:** *Adaptive, multilevel, Fourier-based fast transforms*, Leslie Greengard, New York University, YQI Seminar Room + zoom, password: 333739. Host: Owen Miller.
- 2:30 pm **Yale Astronomy Colloquium:** *Practicing Equity in Graduate Admission*, Casey Miller, Rochester Institute of Technology, KT 409 A&B.
- 4:00 pm **Yale School of Medicine Louis H. Nahum Lecture:** *Impact of CryoEM in Structural Biology*, Richard Henderson, Nobel Prize Laureate in Chemistry 2017, Cambridge University, TAC Auditorium. Reception before the talk.

## Friday, September 29

- 12:00 pm **Computer Science/Yale Quantum Institute Colloquium:** *HetArch: Heterogeneous Microarchitectures for Superconducting Quantum Systems*, Samuel Stein, Pacific Northwest National Laboratory, YQI Seminar Room + zoom.
- 3:00 pm **Yale Undergraduate Quantum Computing:** *Yale x IBM Qiskit Fall Fest*, Yale Quantum Institute. [Register](#). Ends 9:00 pm, Saturday, September 30, 2023.

[More events](#)

## News



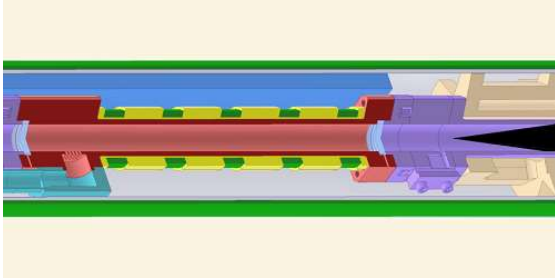
### Welcome Hidalgo and Nunez Silva

Yale Physics welcomes Celín Hidalgo and Sergio Oscar Nuñez Silva, who have both been selected as Wright Lab DOE Research Trainees for Diversity in Nuclear Physics for the academic year 2023-24.



## Welcome Sabrina Zacarias Postdoctoral Associate

Welcome to Sabrina Zacarias who comes to us from Technische Universität Darmstadt as a postdoctoral associate working with Reina Maruyama.



## Project 8 demonstrates new technique to measure neutrino

The neutrino is an elusive subatomic particle that passes effortlessly through normal matter and plays an outsized role among the particles that comprise our universe.

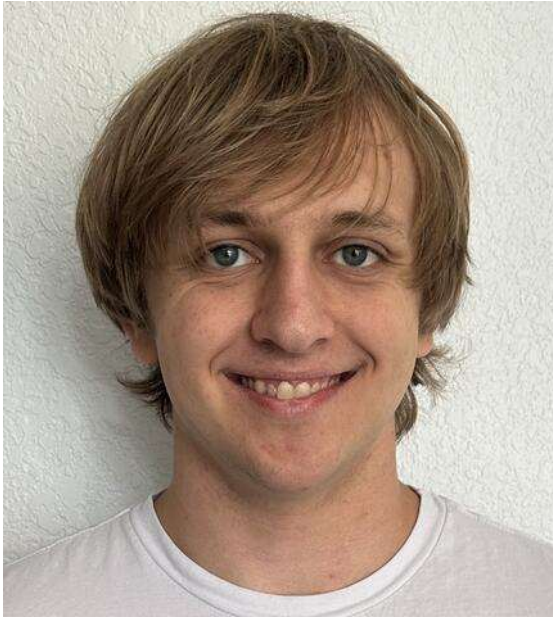


## University reports record-high ladder faculty headcount

*Yale Daily News* reports that Yale's ladder faculty headcount in the Faculty of Arts and Sciences and the School of Engineering and Applied Science has reached a total of 721 this year, marking an all-time high, including four faculty hires in Yale Physics.

## 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.



### **Cooper Pich**

I am interested in biological physics. Outside of physics, I enjoy powerlifting and writing.



### **Eric Regis**

I am interested in biological physics. In my spare time, I love to watch basketball and play board games.



### **Cade Rodgers**

I am interested in the application of computational methods to study various aspects of nuclear physics, such as nuclear many-body systems, nuclear/hadronic structure, and the QCD phase diagram. I have a twin brother who studies chemistry, and I have a bernedoodle!



## Tal Sheffer

I am interested in the fields of quantum computing and quantum information, specifically focusing on superconducting quantum circuits. My previous research primarily revolved around quantum bit (qubit) coherence, where I explored various sources of error within the system to enhance qubit performance. More recently, I have taken an interest in the improvement of qubit control devices which utilize a field programmable gate array (FPGA) board for real-time decision making. Outside of physics I love to cook, bake and travel!

[More news](#)

## Community

### Climate and Diversity Committee News

**“Show them who you are – uninterrupted: Radical possibilities for fostering identity and community in STEM Education”**

Please join the U.S. National Science Foundation on [September 28, from 1 to 2 p.m. Eastern](#) for a lecture by 2023 Alan T. Waterman awardee Dr. Natalie S. King of Georgia State University. In this lecture, Natalie S. King, Ph.D., shares her commitment to advancing Black girls in STEM education, explores the role of curricula and teacher diversity in promoting equity, and provides insights on how she establishes and maintains community-based programs through research-practice partnerships. To learn more about the 2023 Alan T. Waterman award, please visit [the Alan T. Waterman award website](#). [Register here](#).

*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)*

### Lost and Found

Reminder, there is a Lost and Found box in the Chair's Office. [Please check our flickr album](#) to see what has been collected over the last AY. If you have an item go missing or think you have left it behind somewhere, please check with Kirstin or Jen in the Chair's Office (SPL 34).

### Staff News



## Ashenfelter celebrates 35 Years in Physics!

Congratulations to Wright Lab's Jeff Ashenfelter, who celebrated 35 years of working at Yale and Wright Lab. Jeff was originally hired as an accelerator operator at the Wright Nuclear Structure Laboratory (WNSL), quickly became head of accelerator operations, and is now the Associate Director for Operations of Wright Lab.

## COVID-19 Update

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

# Opportunities

## Faculty Opportunities

**No internal open positions at this time.**

[Faculty position in Radiation and Nuclear Physics - University of Memphis](#) (deadline **October 20, 2023**)

[Tenure-track Assistant Professor in Theoretical High Energy Physics – Particle Cosmology - University of Pennsylvania](#) (deadline **November 1, 2023**; expected start date July 1, 2024)

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

[Postdoctoral Research Scientist, Experimental High Energy Physics - Yale University](#) (deadline **October 13, 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**)

[2024 Yale Prize Postdoctoral Prize Fellowship - Yale University](#) (deadline **October 31, 2023**)

**Yale Center for Astronomy & Astrophysics Postdoctoral Fellowship - Yale University (deadline November 3, 2023)**

2024 Postdoctoral Fellowships - Perimeter Institute (deadline **November 6, 2023** for positions to start in September 2024.)

Linus Pauling Postdoctoral Fellowship- Pacific Northwest National Laboratory (deadline **November 9, 2023**)

Edwin Thompson James Fellowship- Washington University in St. Louis (deadline **November 15, 2023**)

**Postdoctoral Associate in Experimental Cosmology - Yale University (deadline December 15, 2023)**

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.

## **General Grants and Fellowships**

NASA Connecticut Space Grant Consortium - Fall Request for Proposals (deadline **October 13, 2023**, at 11:59pm)

## **Meetings, Schools, Workshops, and Conferences**

American Physical Society Webinars - PULSE Undergraduate Research Webinar: Possible Research Areas, September 27, 2023 @ 10:00am ET.

American Physical Society March Meeting 2024, March 3-8, 2024 - Minneapolis, MN and virtual (dates to be announced). American Physical Society March Meeting is a scientific research conference that brings together more than 13,000 physicists from around the world to showcase their work, connect with others, and discover groundbreaking physics research. Join us in 2024 for an extra special week as we celebrate the 125th anniversary of APS.

**Registration opens November 2023. Submit your abstract through October 20, 2023.**

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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*For further information email [Daphne Klemme](#). Please click on the links to contribute to the newsletter or update alumni information.*

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