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# Yale Physics



## Week of January 7-13, 2024

### Events

#### Monday, January 8

4:00 pm **Molecular Biophysics & Biochemistry Seminar:** *New Frontiers in Understanding and Improving Genome-Editing with CRISPR-associated Transposons*, Elizabeth Kellogg, Cornell University, JEH (315 Cedar Street).

#### Tuesday, January 9

1:00 pm **Condensed Matter Theory Seminar:** *Inelastic decay from integrability*, Amir Burshtein, Tel Aviv University, SPL 51. Host: Benyamin Remez.

#### Wednesday, January 10

9:00 am - 5:00 pm **Yale Quantum Institute Event:** *CircuitQED@20*, OC Marsh Lecture Hall.

10:30 am **Department of Chemistry, Experimental Physical Chemistry Seminar:** *Ultrafast control of nanomaterials with terahertz-frequency light*, Jiaojian (Tristan) Shi, Stanford University, SCL 160. Host: Mark Johnson.

#### Thursday, January 11

9:00 am - 6:00 pm **Yale Quantum Institute Event:** *CircuitQED@20*, OC Marsh Lecture Hall.

10:30 am **Department of Chemistry, Experimental Physical Chemistry Seminar:** *Confirming the observation of photoelectron circular dichroism in the photodetachment of chiral anions*, Mallory Green, Fritz Haber Institute of the Max Planck Society, SCL 160. Host: Mark Johnson.

#### Friday, January 12

9:00 am - 4:30 pm **Yale Quantum Institute Event:** *CircuitQED@20*, OC Marsh Lecture Hall.

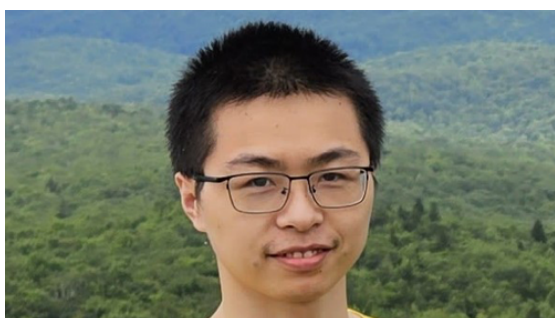
10:30 am **Department of Chemistry, Experimental Physical Chemistry Seminar:** *Title - To Be Announced*, Benjamin Ofori-Okai, Stanford University, SCL 160. Host: Mark Johnson.

## News



### Office Hours with... Laura Havener

In an interview, Yale physicist Laura Havener talks about the sense of community that develops while working on an international physics experiment.



### Welcome Nemin Wei

Welcome to Nemin Wei who comes to us from the University of Texas at Austin as a Yale Prize Postdoctoral Fellow working with Meng Cheng.



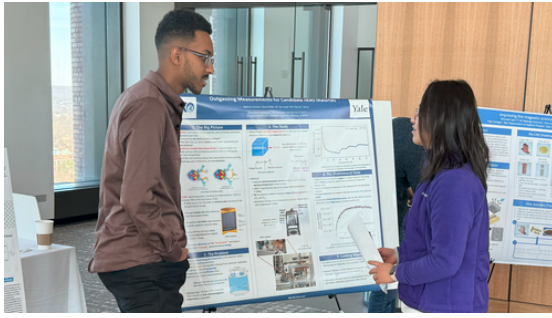
### Congratulations Dr. Kimmy Cushman

On December 12, Kimmy Cushman successfully defended the thesis, “Stealth Dark Matter with Lattice Field Theory” (advisor: George Fleming).



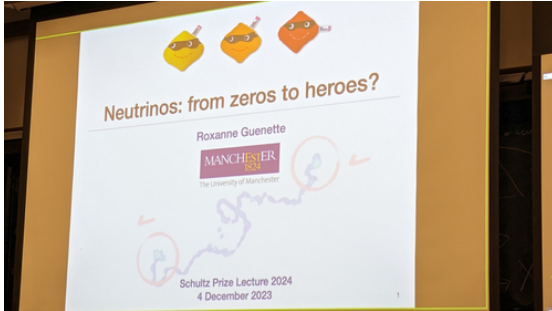
### Congratulations Barkotel Zemenu

Yale Physics (Intensive) major Barkotel Zemenu – a senior undergraduate researcher in Yale Wright Lab’s Moore Group and co-president of Yale Society of Physics Students (SPS) – was named the Fall 2023 recipient of the Sigma Pi Sigma Leadership Scholarship.



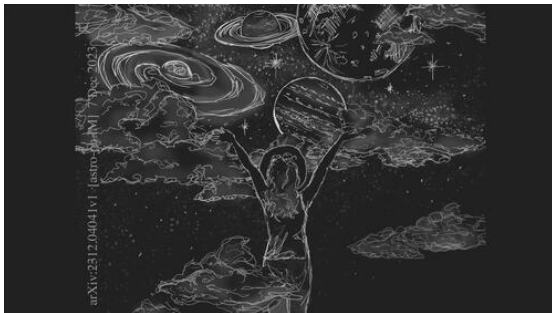
## Physics students present Fall research

On December 15, the students from the physics department independent research courses PHYS 469 (for first years and sophomores) and PHYS 471 (for juniors and seniors) presented the results of their research done over the fall term.



## Howard L. Schultz, Sr. Prize Lecture

On December 4, 2023, the Yale Society of Physics Students (SPS) hosted Prof. Roxanne Guenette from the Univ. of Manchester as the fifth guest of honor and speaker for the Howard L. Schultz Sr., Prize Lecture on the topic, "Neutrinos: From zeros to heroes?"



## New Guide for Aspiring Astrophysicists

Several current and alumni members of the Yale Astronomy and Physics departments have contributed to a book, currently available on the arXiv, called "Astronomy as a Field: A Guide for Aspiring Astrophysicists".

[More news](#)

# Community

## Climate and Diversity Committee News

### 11th Annual Internship and Job Fair

Thursday, January 11 | 12 - 5 PM | Schwarzman Center Commons, 168 Grove St | [Volunteer](#)

"We can't do it without you!" The New Haven Hiring Initiative needs 40 volunteers, like you, to help make Promise's 11th Annual Internship, Job, and Career Fair a success. This in-person event will host about 200 New Haven students and 50+ hiring agencies. The payoff - see first-hand New Haven's dynamic young talent! We need help with set-up, registration, mentorship, event flow, and more.

*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).

## COVID-19 Update

Yale COVID-19 Information - including updates on testing and vaccinations.

# Opportunities

## Faculty Opportunities

Assistant Professor Position in Quantum Computing & Quantum Information (Computational/Theory) - Rensselaer Polytechnic Institute (deadline **January 8, 2024**).

Assistant/ Associate Professor/ Professor - Department of the Air Force (deadline **January 12, 2024**).

2024 Machine Learning for Mathematical & Quantum Physics Tenure Track Faculty Position - Perimeter Institute (deadline **January 15, 2024**).

2024 Simons Emmy Noether Fellowship: Faculty Stream - Perimeter Institute for Theoretical Physics (application deadline **January 15, 2024**).

Spring 2024 Awards - NASA CT Space Grant Consortium (deadline **January 17, 2024**). Our campus representative is Andrew Szymkowiak.

Assistant Professor, Condensed Matter and Materials Theory - University of California, Santa Cruz (anticipated start July 1, 2024; deadline **June 30, 2024**).

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

2024 Simons Emmy Noether Fellowship: Postdoctoral stream - Perimeter Institute for Theoretical Physics (application deadline **January 15, 2024**).

Postdoctoral Fellowships in Physics and Astronomy - Johns Hopkins University (deadline **February 29, 2024**)

Postdoc Position in Theoretical Condensed Matter and Computational Biophysics - UC Riverside

Experimental Postdoctoral Position in Electron-Positron Plasmas - UC Riverside

Postdoctoral Position in the Quantum Monte Carlo Group - Washington University in St. Louis

Postdoctoral Research Position in Experimental Neutrino Physics - University of Pittsburgh

## Graduate Student Opportunities

Stewardship Science Graduate Fellowship - Department of Energy National Nuclear Security Administration (deadline **January 10, 2024**).

Foreign Affairs Information Technology Fellowship - U.S. Department of State (deadline **January 16, 2024**).

[Spring 2024 Awards](#) - NASA CT Space Grant Consortium (deadline **January 17, 2024**). Our campus representative is [Andrew Szymkowiak](#).

[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))

[Perimeter Scholars International](#) - Perimeter Institute for Theoretical Physics (deadline **February 1, 2024**)

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

## **Undergraduate Student Opportunities**

[Marine Physical Laboratory Summer Internship Program](#) - University of California, San Diego (deadline **January 12, 2024**).

[PSI Start Program](#) - Perimeter Institute for Theoretical Physics (deadline **January 15 2024**).

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

[Spring 2024 Awards](#) - NASA CT Space Grant Consortium (deadline **January 17, 2024**). Our campus representative is [Andrew Szymkowiak](#).

[Research Experience for Undergraduates](#) - The Center for Neutrino Physics, Virginia Tech (application deadline **February 15, 2024**)

[REU Interactions of Matter, Light & Learning](#) - Kansas State Physics (application review begins February 19, 2024 until all places are filled)

[Undergraduate Research](#) - Yale School of Medicine

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

[American Physical Society Webinars](#) - Student Success, PULSE Undergraduate Research Webinar: Selecting Good Mentors, January 31, 2024 @ 10:00 a.m. ET.

[Gordon Research Seminar: The Bounds of Mechanical Systems From Probes of New Physics to Hardware for Quantum Technologies](#), March 2-3, 2024 - Ventura, CA. Applications for this meeting must be submitted by **February 3, 2024**.

[Gordon Research Conference: Mechanical Systems in the Quantum Regime](#), March 3-8, 2024 - Ventura, CA. Applications for this meeting must be submitted by **February 4, 2024**.

[American Physical Society March Meeting 2024](#), March 3-8, 2024 - Minneapolis, MN. In-person and virtual. Early bird registration through **January 17, 2024**).

[American Physical Society April Meeting 2024](#), April 3-6, 2024 - Sacramento, CA. registration to open soon.

[American Physical Society 55th Annual Meeting of the APS Division of Atomic, Molecular and Optical Physics](#), June 3-7, 2024 - Fort Worth, TX. Abstract submission open through **February 2, 2024**.

[Boulder School for Condensed Matter and Materials Physics: Self-Organizing Matter](#), July 1-26, 2024 - University of Colorado Boulder. Application deadline **January 15, 2024**.

[MCQST Summer Bachelor Program](#), August 3-30, 2024 - Munich, Germany. Application deadline **January 31, 2024**.

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