Yale Physics

Events

Monday, March 8
4:00 pm  Physics Club: No talk scheduled this week.

Tuesday, March 9
1:00 pm  Online Dissertation Defense: Interdisciplinary Machine Learning Methods for Particle Physics, Mariel Pettee, Yale University, Advisor: Sarah Demers. Please contact Stacey Watts for zoom information

Wednesday, March 10
3:00 pm  Wright Lab event: Introduction to Scientific Computing, Thomas Langford, Yale University. Registration required.

Thursday, March 11
2:30 pm  Department of Astronomy Virtual Colloquium: Title TBA, Keith Hawkins, University of Texas, contact department for zoom information.

Friday, March 12
12:00 pm  Yale Quantum Institute Seminar: Title TBA, Xavier Waintal, CEA France, contact department for zoom information.

News

Ereditato joins Yale Physics as Visiting Professor

Yale Physics welcomes Antonio Ereditato as a visiting professor in physics, a 3-year joint appointment between Yale and Fermi National Accelerator Laboratory (Fermilab). Ereditato is also professor Emeritus at the University of Bern.
Lesher creates podcast about the intersection of nuclear science and society

Shelly Lesher, a professor of physics at University of Wisconsin-LaCrosse (UWL) who was in residence at Wright Lab from 2019-20 as a Yale Presidential Visiting Scholar, has created and hosts a popular podcast called “My Nuclear Life”.

Hui Cao getting random numbers faster

Random numbers are increasingly important to our digitally connected world, with applications that include e-commerce, cryptography, and cloud computing. Producing a large amount of truly random numbers quickly, though, is a challenge.

Amber Young (YC’2021) featured in “Black Voices at Yale”

Black STEM scholars at Yale discuss the challenges of being an underrepresented demographic in Yale’s STEM departments.

Sisi Zhou successfully defends thesis


Ryan Petersburg successfully defends thesis


Daniel Seara successfully defends thesis

On March 2, 2021, Daniel Seara successfully defended his thesis “Energetics of biological
mechanics and dynamics” (Advisor: Michael Murrell).

Community

Kline Tower renovation and Sloane Physics Lab construction

Construction has begun on the Kline Tower and Sloane Physics lab project. Please be aware of this when you come to Sloane lab. More updates to come.

Click here for updates on Science Hill projects.

Climate and Diversity Committee News

The APS has just released an issue brief on the impact of the pandemic on US physics research. They based their report on an analysis of abstract submissions to the March meeting. The following 4 impacts were highlighted.

- Overall US physics research output was significantly reduced from the 2020 March Meeting to the 2021 March Meeting.
- US experimental physics was severely impacted by the pandemic, with 20% fewer abstracts in 2021 than in 2020.
- US researchers at critical career stages are being disproportionately affected, in particular recent graduates (<5 years since PhD) and early-career researchers (5-10 years post-PhD).
- US female scientists, in particular early-career faculty/researchers who received their PhD between 5 and 10 years prior, have been disproportionately affected by the pandemic. Among the submitters in this career stage, the number of US female submitters decreased by more than -15% – more than double the decrease of their male counterparts (-6.9%) percent decline.

The brief calls for several specific policy responses targeted at the needs of those in the physics community most affected, including programs to help ensure continuity for those at transition points in their careers.

If interested in joining the CDC, please contact Helen Caines, Chair of CDC. You may contact the whole committee at physics-cdc@mailman.yale.edu

COVID-19 update

Please check Yale COVID-19 Statistics for current statistics. The current COVID-19 Alert Level is Orange (see the site for an explanation).
Opportunities

Faculty positions

- Faculty and Associate Faculty Positions - Perimeter Institute (no date)
- Experimental Quantum Information Science (Applied Physics) - Yale University (Jun. 1, 2021)

Grants

- OPRA Association Physics Grants - OPRA (Apr. 15, 2021)

Fellowships

- Research Fellows - Basque Foundation for Science (Mar. 10, 2021)
- The Simons Emmy Noether Fellows Program - Perimeter Institute (Mar. 31, 2021)
- Postdoctoral Fellowship Opportunities - Stanford University (Apr. 30, 2021)

Graduate Research

- Office of Science Graduate Student Research program - U.S. Department of Energy (May 5, 2021)

Undergraduate Research

- Research Assistant - Yale School of Public Health (contact Navin Kumar for further information)
- Research Assistant - Forastiere Lab (contact Navin Kumar for further information)