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Yale Physics



August 27, 2021 Issue

Events

Monday, August 30

3:00 pm **The Franke Program in Science and the Humanities:** Understanding the Nature of Inference: Correlation and Causation - *The Inference of Nature: Cause and Effect in Molecular Biology*, Sarah Teichmann, Wellcome Sanger Institute, United Kingdom, [Learn More and Register Here](#).

Tuesday, August 31

10:00 am **New Student Orientation - Graduate Class of 2021:** Orientation for new physics graduate students. For further information please contact Rona Ramos (rona.ramos@yale.edu).

2:00 pm **Online Dissertation Defense:** *The Development of Mathematical Methods for Tackling Problems in Non-Perturbative Quantum Field Theory, Cosmology, and Gravity*, Daniel Berkowitz, Yale University, [zoom](#). Thesis Advisors: George Fleming and Vincent Moncrief

3:00 pm **The Franke Program in Science and the Humanities:** Understanding the Nature of Inference: Correlation and Causation - *A Conversation With*, Neil Lawrence, University of Cambridge, [Learn More and Register Here](#).

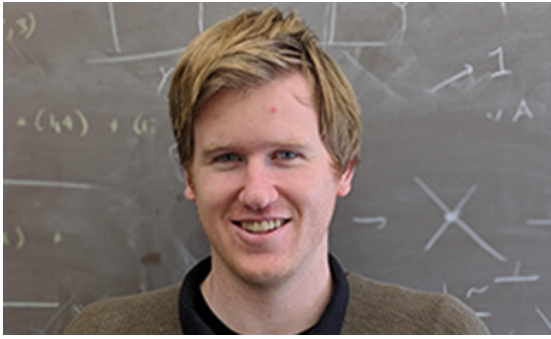
Wednesday, September 1

2:30 pm **Department of Mechanical Engineering and Materials Science Seminar:** *Twisted topological tangles or: The knot theory of knitting*, Sabetta Matsumoto, Georgia Institute of technology, [zoom](#). Host: Rebecca Kramer-Bottiglio.

[More events](#)

News

New Faculty 2021-2022: Ian Moult



Please join us in welcoming Ian Moulton who comes to us from SLAC/Stanford as part of the Theoretical Particle Physics group. Professor Moulton obtained his undergraduate degree from the University of British Columbia in 2011, and his Ph.D in theoretical particle physics from MIT in 2016.

Science is Changing

Thousand Years Ago:
Science was empirical
describing natural phenomena



Last Few Hundred Years:
Theoretical branch using
models, generalization

Last Few Decades:
A computational branch
simulating complex phenomena



Today: Data intensive science,
synthesizing theory, experiment
and computation with statistics.



Data joins experiment, theory, and
simulation in the discovery process.

New way of thinking required!

New Scientific Computing and Data Science Course

Yale Physics introduces a new course for Fall 2021: PHYS 378 Introduction to Scientific Computing & Data Science, taught by Daisuke Nagai.



Luis Saldana successfully defends thesis

On August 6, 2021 Luis Saldana successfully defended the thesis: "Novel Signal Reconstruction Techniques in Cyclotron Radiation Emission Spectroscopy for Neutrino Mass Measurement". (Advisor: Karsten Heeger).

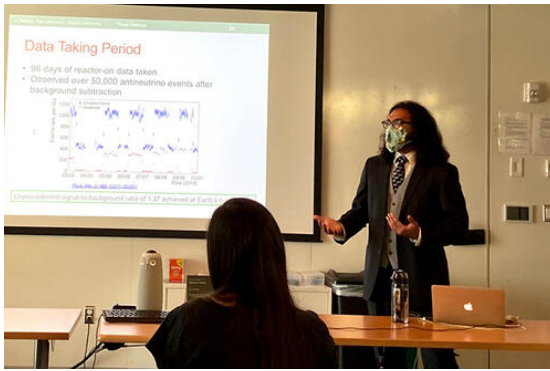


Torres joins Yale Physics as Postdoctoral Associate

Yale Physics welcomes Jorge Torres as a postdoctoral associate in physics. He comes to us from the Ohio State University where he has received his doctorate working on data analysis and simulation for the Askaryan Radio Array (ARA) experiment, an experiment on the South Pole searching for the most energetic neutrinos. He will be working with Reina Maruyama in experimental particle physics.

Jeremy Gaison successfully defends thesis

On August 13, 2021, Jeremy Gaison successfully defended the thesis "Measurement of the Reactor Antineutrino

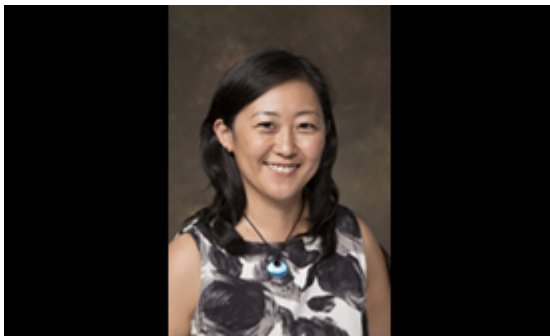


Spectrum of U-235 by PROSPECT and Daya Bay". (Advisor: Karsten Heeger).



Priya Natarajan on Scientific American's 60 Second Science

Yale Astronomy's Priya Natarajan, professor of Astronomy, was on August 12th's edition of Scientific American's 60 Second Science on Black Holes, "Astronomers Find an Unexpected Bumper Crop of Black Holes".



Reina Maruyama featured in AIP Oral History Interview

Yale Physics's associate professor of physics Reina Maruyama was interviewed by David Zierler for the American Institute of Physics (AIP) Oral History interviews, which offer unique insights into the lives, works, and personalities of modern scientists. Interviews range in date from the early 1960s to the present and cover the major areas and discoveries of physics from the past 100 years.

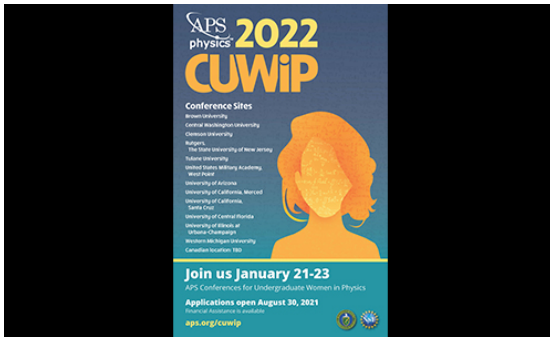


Matthew Mendelsohn (YC'2007 in Physics) appointed Yale's chief investment officer

Matthew S.T. Mendelsohn graduated with Distinction in the major in Physics in 2007. He started work in the Yale Investments Office right after graduation and has now been appointed Yale's chief investment officer.

APS CUWiP 2022 to be held January 21-23, 2022

Join us January 21-23, 2022 for the American Physical Society Conferences for Undergraduate Women in Physics. Applications open **August 30, 2021**. Financial Assistance is available. For further information see below. The closest site is at Brown University.



[More news](#)

Community

Climate and Diversity Committee News

Welcome to the new academic year.

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

Fall Term Announcements

Marx Library

With the fall semester approaching, we look forward to welcoming more students, faculty, and staff into our library spaces. As of September 1, Marx Library (formerly CSSSI) will be back to its regular hours for the academic year. [Click here for current hours.](#)

Teaching

The university expects most classes will be taught in person. All students who plan to return to campus for the fall semester are required to be fully vaccinated.

As a reminder, the academic calendar for Yale College and the Graduate School is adjusted to accommodate the Labor Day holiday:

- On Friday, September 3, Monday classes meet instead of Friday classes.
- Monday, September 6, is Labor Day; classes do not meet.

COVID-19 update

Please check [Yale COVID-19 Statistics](#) for current statistics. The current COVID-19 Alert Level is Yellow (see the site for an explanation).

[Yale COVID-19 Site](#)

[COVID-19 Workplace Guidance website](#)

[Yale College COVID-19 Announcements and FAQs](#)

[Yale Physics COVID-19 site](#)

Opportunities

Faculty positions

[Faculty and Associate Faculty Positions - Perimeter Institute \(no date\)](#)

Postdoctoral positions

[Yale Postdoctoral Fellowship in Quantum Information Theory](#) - Yale University (Feb. 1, 2022)

[University of Chicago Fellowship Opportunities](#):

- Grainger Fellowship in Experimental Physics - all fields ([Webpage](#): Deadline Oct. 15, 2021)
- Biological Physics Fellowship in Biological Physics ([Webpage](#): Deadline Oct. 15, 2021)
- Quantum Fellowship in Quantum Science ([Webpage](#): Deadline Oct. 15, 2021)
- Kadanoff-Rice Fellowship in Materials Science ([Webpage](#): Deadline Oct. 15, 2021)
- Kadanoff Fellowship in Theoretical Physics ([Webpage](#): Deadline Nov. 15, 2021)
- KICP Fellowship in Cosmological Physics ([Webpage](#): Deadline Nov. 15, 2021)
- Fermi, McCormick, Oehme Fellowship in Particle Physics, Astro Physics & Astronomy ([Webpage](#): Deadline - to be determined)

Princeton University: [Dicke Fellowship in Experimental Physics](#) (Deadline Oct. 22, 2021)

Postdoc Opportunity - [Air Force Science & Technology Fellowships](#) (Rolling deadlines Feb 1, May 1, August 1, November 1)

Graduate student and Postdoc Research

DOE's Office of Science is now Accepting Applications for Office of Science Graduate Student Research (SCGSR) Awards (Deadline November 10, 2021)

Undergraduate Research

Research Assistant - Yale School of Medicine (contact [Navin Kumar](#) for further information)

DOE's Office of Science [Spring 2022 Undergraduate Internships](#)

Caltech: [2nd Annual FUTURE Ignited](#) program, a one-day virtual conference on October 2 for Junior or Senior students of color,* in a STEM field.



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For further information, or to contribute to the newsletter, please send email to [Daphne Klemme](#).

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