

KAVLI COMMUNITY UPDATES

MAY 2021 ISSUE 1



Welcome! Kavli Community Updates feature announcements, news, events, and opportunities of interest to members and partners of the **20 Kavli Institutes around the world**, where scientists explore the frontiers of science in the fields of astrophysics, nanoscience, neuroscience and theoretical physics.



Spread the Word

Share this **sign-up link** with Kavli Institute colleagues.

ANNOUNCEMENTS

Kavli NanoNeuro Fellows Program

ACCEPTING APPLICATIONS

The Kavli NanoNeuro Fellows Program is a joint initiative to explore the interface between nanoscience and neuroscience. Interdisciplinary postdoctoral fellows will be provided with independent funding and support to work at the intersection of both nanoscale science and neuroscience, conducting research that bridges two or more labs, with at least one at the Kavli Institute at Cornell for Nanoscale Science, and one at the Kavli Institute for Brain Science at Columbia.

APPLICATION DEADLINE: TUESDAY, JUNE 1

LEARN MORE

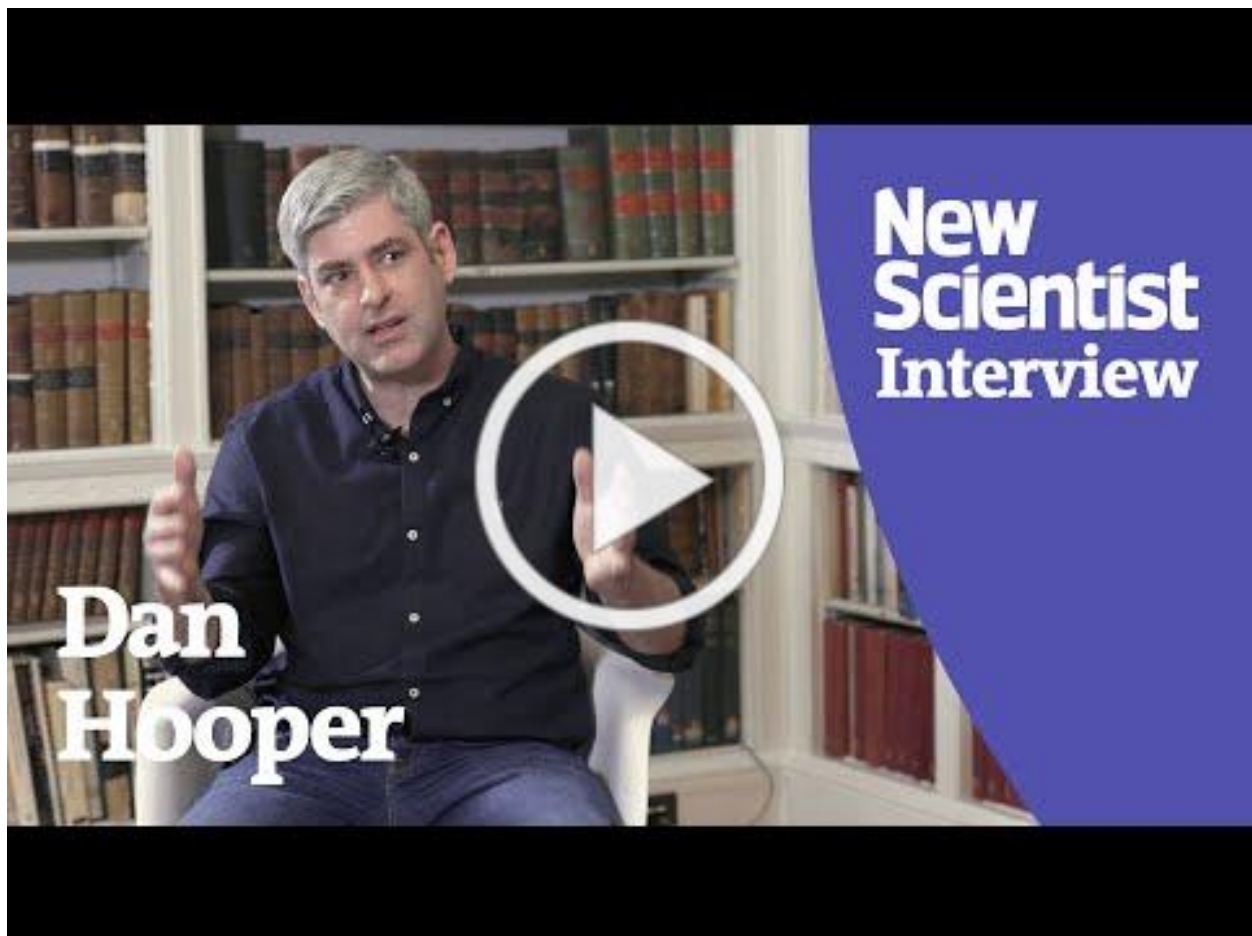
Kavli Community on Slack

To increase networking opportunities and foster community, The Kavli Foundation has launched a neuroscience Slack workspace for members and alumni of Kavli Institutes. A workspace for astrophysics will be coming this summer and one for nanoscience will come later this year.

Join the conversation on Slack:

[KAVLI NEURO FUTURES](#)

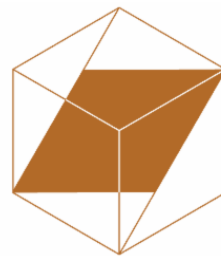
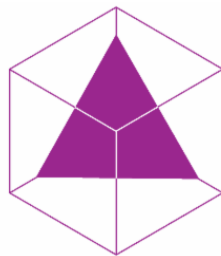
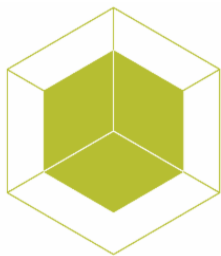
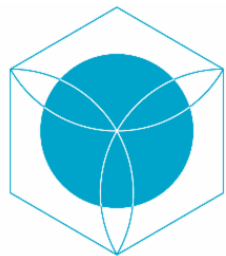
IN THE NEWS



Mysteries from the Beginning of Time

Check out a *New Scientist's* video interview with Dan Hooper of the Kavli

Institute for Cosmological Physics at the University of Chicago.



ASTROPHYSICS

Modified Gravity

A theory that could solve confounding cosmic quandaries and unite gravity with the rest of nature's fundamental rules.

NANOSCIENCE

Plenty of Room

Origami robots smaller than a grain of sand, reconstructing how cells duplicate DNA, quantum computing, nonlinear optics, and even mind control.

NEUROSCIENCE

The Not-So-Secret Lives of Cells

Newfound ways of peering into cells help researchers unlock the mysteries of the brain.

THEORETICAL PHYSICS

The Enduring Quest for Proton Decay

A Kavli Institute-affiliated researcher takes us behind the scenes of the decades-long mission to overturn established physics by proving that protons can in fact die.

EVENTS

Discover more lectures, webinars, and conferences offered by The Kavli Foundation, Kavli Institutes, and partner organizations on the

Kavli Community Calendar.

NEUROSCIENCE

Neuronal Ensembles

VIRTUAL SYMPOSIUM | KAVLI INSTITUTE FOR BRAIN SCIENCE, COLUMBIA, AND KAVLI INSTITUTE FOR NEURAL SYSTEMS, NTNU

The Kavli Foundation is sponsoring this free, virtual symposium co-organized by Rafael Yuste from the Kavli Institute for Brain Science at Columbia and Emre Yaksi from the Kavli Institute for Systems Neuroscience at NTNU.

The event will feature talks from leading investigators from developmental, sensory, cognitive and computational neuroscience.

WEDNESDAY, MAY 5 | 9:00 AM to 4:00PM EDT | 15:00–22:00 CEDT



[REGISTER](#)

ASTROPHYSICS

Kavli Astrophysics Postdoctoral Forum Workshop

VIRTUAL WORKSHOP | THE KAVLI FOUNDATION

A two-day virtual workshop dedicated to professional development and career exploration. The agenda is currently being set by postdoc representatives from each of the Kavli Institutes in astrophysics.

TUESDAY–WEDNESDAY, JUNE 15–16



[REGISTER](#)

PUBLIC ENGAGEMENT WITH SCIENCE

Communicating the Future: Engaging the Public in Basic Science

VIRTUAL CONFERENCE | SCIENCE PUBLIC ENGAGEMENT PARTNERSHIP

SciPEP aims to empower scientists and professionals to engage the public in basic science. If you lead any efforts that engage the public in basic science, or are a scientist who wants to learn more about engaging the public in your science, come to the free virtual conference.

TUESDAY–WEDNESDAY, JULY 27–28



[LEARN MORE](#)

COMMUNITY SPOTLIGHT



Ting Xu

Professor of Chemistry & Materials Science and Engineering
KAVLI ENERGY NANOSCIENCE INSTITUTE, UC BERKELEY

Hometown: Dalian, China

Favorite Scientific Discovery: Evolution

Favorite Movie: *Men in Black*. I love how in the final scene the view zooms out from the street to the galaxy and our universe becomes a marble in an alien's game.

Hobbies: I love anything associated with the ocean, diving, snorkeling, surfing, fishing or just idling...

Six-Word Memoir: Raising my son is my science.

How did you first become interested in science? Who or what inspired you?

I grew up on a university campus in China. My childhood playground was my mom's chemistry lab. My dad introduced many things when I was young including a manual calculator that looks just like a ruler. Although I never told him, in all honesty, he is really the first one who brought me into science.

What is the question that most drives your work right now?

I am interested in entropy and specifically, how nature processes information stored in DNA at the system level and how to balance the precision with randomness. I am incorporating what I learn into material development, hoping to synchronize different processes so we can live in harmony with our planet.

[**Learn More about Ting Xu**](#)

OPPORTUNITIES

Discover open positions and other opportunities within the Kavli Community.

ASTROPHYSICS

Postdoctoral Associate

KAVLI INSTITUTE FOR ASTROPHYSICS AND SPACE RESEARCH | MIT

MKI is recruiting a postdoctoral associate to work in the areas of observational astrophysics and computational science related to exoplanets and transient astrophysics under the direction of Dr. George Ricker, the PI of MIT-led Transiting Exoplanet Survey Satellite (TESS), and participate in the discovery team assessing the scientific data from TESS.

[LEARN MORE](#)

Research Scientist

KAVLI INSTITUTE FOR ASTROPHYSICS AND SPACE RESEARCH | MIT

MKI and the Space Research–Laser Interferometer Gravitational–Wave Observatory (LIGO) are recruiting a research scientist to work with Professor Nergis Mavalvala to oversee an experimental research program in quantum optics, quantum optomechanics, precision interferometry, and gravitational wave detection.

[LEARN MORE](#)

MKI is also accepting applicants for an [Administrative Assistant](#) and a [Human Resources Administrator](#).

NANOSCIENCE

Postdoc Position and PhD Student

KAVLI INSTITUTE OF NANOSCIENCE DELFT

The Gröblacher Lab has openings for one PhD student and several Postdocs to study quantum optomechanics with photonic crystals.

[LEARN MORE](#)

Postdoc/Engineering Positions

KAVLI INSTITUTE OF NANOSCIENCE DELFT

The Kouwenhoven lab is recruiting postdoc or engineer candidates with experience working with quantum devices in particular in the fields of electrical quantum transport or qubit physics for research in semiconductor–superconductor hybrid devices.

[LEARN MORE](#)

NEUROSCIENCE

Postdoctoral Fellow

KAVI INSTITUTE FOR SYSTEMS NEUROSCIENCE | NTNU TRONDHEIM, NORWAY

The Ziaei group at KISN is recruiting a postdoctoral fellow. The group studies the

structural and functional neural networks underlying social and emotional processing in aging. The deadline to apply to this position is May 15.

[LEARN MORE](#)

Postdoctoral Fellow and PhD Student

KAVI INSTITUTE FOR SYSTEMS NEUROSCIENCE | NTNU TRONDHEIM, NORWAY

The Yaksi group at KISN is recruiting Postdoctoral Fellows and/or PhD students to study the relationship between animals' behavioral states encoded by the ongoing brain activity and alterations in sensory information processing in the ancestral cortico-limbic structures of zebrafish brain.

[LEARN MORE](#)

PhD Student

KAVI INSTITUTE FOR SYSTEMS NEUROSCIENCE | NTNU TRONDHEIM, NORWAY

The Doeller group at KISN is recruiting a PhD student in cognitive neuroscience to join the newly established [K. G. Jebsen Centre for Alzheimer's Disease](#) and be affiliated to the NTNU Department of Neuromedicine and Movement Science.

[LEARN MORE](#)

For questions, feedback, or to inform us of events and opportunities at your institute, please send an email to community@kavlifoundation.org.

"It is my vision that these institutes will form an outstanding research core, to draw information from each other and promote interchange between disciplines by scientists around the world."

–FRED KAVLI

THE KAVLI FOUNDATION | kavlifoundation.org



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