

KAVLI COMMUNITY UPDATES

JULY 2021 ISSUE 3



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](#) for the Kavli Community Updates with Kavli Institutes colleagues.

JULY EVENTS AND REMINDERS

NEUROSCIENCE

Neuro Futures Forum Meeting

VIRTUAL MEETING | THE KAVLI FOUNDATION

The Kavli Foundation is hosting this series of virtual meetings and the [Neuro Futures Slack Community](#) to bring together neuroscience Kavli Institute members, postdocs, grad students and Kavli alumni for scientific discussion and community building, with a focus on forging meaningful networks.

Join us at the second Neuro Futures meeting for discussion and breakouts with speakers [Christoph Kirst](#) (UCSF) and [Rachel Duffié](#) (Columbia). [Sam Sober](#) from Emory University will also host a special breakout session on advancements in probing muscle activity.

Scientific presentations can be screened at any time after they are released to the community but will also be streamed on the meeting site at 8 AM PDT / 5 PM CEST.

MONDAY, JULY 12, 9 AM – 10:30 AM PDT / 6 PM – 7:30 PM CEST

 [REGISTER](#)

NEUROSCIENCE

Mathematical Methods in Computational Neuroscience

This free course will be held in-person and online at the family farm where Fred Kavli grew up in Eresfjord, Norway. This "summer school" covers some of the most important methods used in computational neuroscience research.

The course will bring together members of the Kavli community with scientists from across Europe and the United States. The impressive set of instructors, speakers, and organizers will include Kavli community members from the [Kavli Institute for Systems Neuroscience](#) at NTNU, such as [Yasser Roudi](#).

To attend in person, you must apply by July 10. All seminars will be free for the public to attend online, with no registration required.

 [LEARN MORE](#)

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 you are a scientist who wants to learn more about engaging the public in your research, register now for the free virtual conference.

TUESDAY–WEDNESDAY, JULY 27–28

 [LEARN MORE](#)

 [REGISTER](#)

Share your opinions and ideas on communications and public engagement training

The foundation is launching virtual trainings on communications and public engagement. To help us ensure this training best fits the needs and interests of our Kavli scientists, please complete a short survey and share the link with members of your institute. The survey closes July 16.

[COMPLETE THE SURVEY HERE](#)

Join Kavli Communities on Slack

Have you used Slack? It's a great virtual space for keeping in touch with other scientists and starting conversations about your work and what is going on in your field.

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

Join the conversation on Slack:

[KAVLI ASTROPHYSICS FORUM](#)

[KAVLI NEURO FUTURES](#)

COMING SOON

PUBLIC ENGAGEMENT WITH SCIENCE

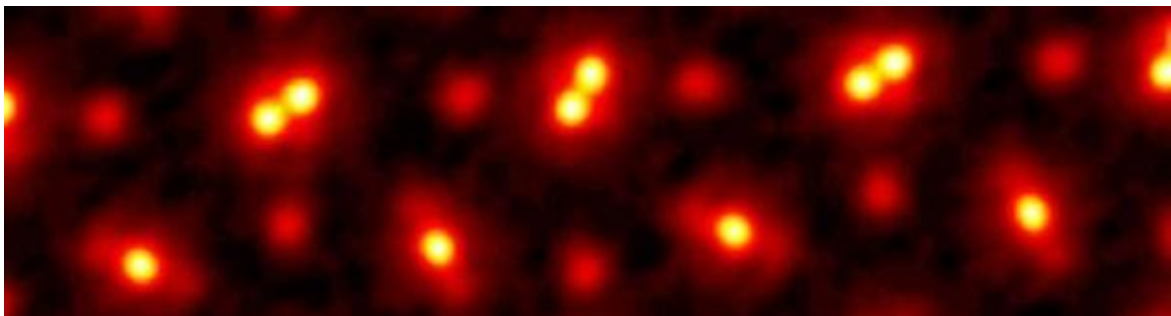
Science and Society Webinar and Discussion Series

In September, The Kavli Foundation will launch a new webinar and discussion series on engaging the public in science. In collaboration with leading expert Jeanne Garbarino from RockEDU Science Outreach at The Rockefeller University, we aim to provide clear takeaways that Kavli community members can apply to their own aspirations and activities.

In our opening webinar, we will take a critical look at how public engagement does (and does not!) uphold diversity, equity, and inclusion. Stay tuned for more details.

Discover more lectures, webinars, and conferences offered by The Kavli Foundation, Kavli Institutes, and partner organizations on the [Kavli Community Calendar](#).

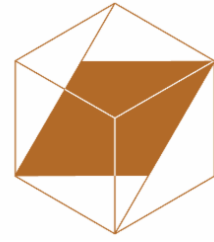
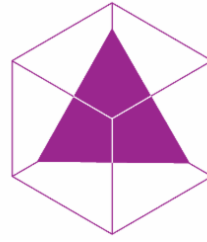
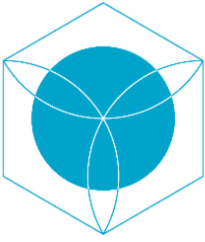
IN THE NEWS



[See the Highest-Resolution Atomic Image Ever Captured](#)

Researchers at the Kavli Institute at Cornell for Nanoscale Science broke their own Guinness World Record with this amazing image. Read about how they did it in [this article in Scientific American](#) or in the original publication

in Science, [Electron Ptychography Achieves Atomic-Resolution Limits Set by Lattice Vibrations](#).



ASTROPHYSICS

[Discerning the Galactic Dens Where Monster Black Holes Lurk](#)

Part 2 of our 'Looking Ahead to Webb' series explores how the next-generation telescope could reveal the stars composing the especially distant galaxies thought to host quasars

NANOSCIENCE

[Up Close and Personal](#)

Atoms at high resolution and more from Kavli Institutes in Nanoscience

NEUROSCIENCE

[Listening to the Brain](#)

Partnerships between engineers, doctors and neuroscientists open up new ways to listen to the brain

COMMUNITY SPOTLIGHT

NEUROSCIENCE

Olivia Goldman
Kavli Neural Systems Institute | Rockefeller

HOMETOWN Highland Park, NJ
SIX-WORD MEMOIR Figuring it out as I go
LUNCH WITH A SCIENTIST Eleanor Slifer & Hedy Lamarr

HOW WOULD YOU EXPLAIN YOUR RESEARCH TO A KINDERGARTENER?
When you put on bug spray, insects are no longer interested in biting you. I research what it is like for a mosquito to taste you and your bug spray!

WHAT ARE YOU MOST EXCITED ABOUT OR INSPIRED BY IN SCIENCE RIGHT NOW?
The potential for studying new animal models in basic research to revolutionize foundational principles in neuroscience.

WHAT IS A COMMON MISCONCEPTION ABOUT YOUR RESEARCH OR YOUR FIELD?
Many people hesitate to use "chemical" insect repellents. People often confuse DEET, one of the most common and effective insect repellents, with DDT, an insecticide that was popular in the mid-1900s and is very harmful for wildlife. Regarding environmental and health concerns, DEET is a million miles away from DDT. You should definitely use DEET over "natural" repellents if you are in an area that puts you at risk for insect-borne disease.

Olivia Goldman

Kavli Graduate Fellow, Laboratory of Neurogenetics and Behavior
KAVLI NEURAL SYSTEMS INSTITUTE, THE ROCKEFELLER UNIVERSITY

Hometown: Highland Park, NJ

Favorite Scientific Discovery: From the five "canonical taste qualities" (sweet, savory, salty, bitter, salty), cats and many other carnivores can't taste sweet things. Dolphins can only taste salt.

Favorite Book & Movie: Life is Beautiful / La vita è bella

Most Unusual Job: In the 2000s, before internet was on phones, I was a live "expert" for the answer-any-question-by-text service, ChaCha.

Six-Word Memoir: Figuring It Out As I Go

Hobbies: Biking, Music, Crafting, Pickling

How did you first become interested in science?

I first became interested in science through music. I was (and am) intrigued by how similar combinations of musical notes (similar auditory stimuli) can elicit vastly different emotional responses. A happy (major) chord and a sad (minor) chord have almost all the same notes—and exactly the same spatial relationship between the notes, just flipped upside down!

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

Insects can detect insect repellents with their legs! I study the organizational principles around chemical sensing in mosquito legs and how this impacts the mosquito's perceptual space and behavior.

What scientist, dead or alive, would you most like to have lunch with and why?

My first is Eleanor H. Slifer, PhD. In 1954, she discovered that the tips of the hairs on grasshopper antennae would stain with a dye, discovering what we now understand to be "nanopores" -- the reason insects can smell and taste through their impermeable exoskeleton. When she developed a severe allergy to grasshoppers, she went on to use electron microscopy to study the sensory structures in species in all 30 insect orders, finding these pores in all of them. The pictures from her work are remarkable!

My second is Hedy Lamarr, mid-1900s pioneering film actress and co-inventor of the foundational technology for Bluetooth and Wi-Fi.

You are very active in scientific outreach and have even started an organization to help minority students succeed in STEM. Can you tell us a little about Científico Latino?

It is almost impossible to succeed in the sciences unless you have a mentor who invests in you, and unfortunately access to quality mentorship can be limited, particularly for marginalized students. [Científico Latino](#) is a platform that creates open-access resources and opportunities for mentorship so that anyone—regardless of ethnicity, gender, sexual orientation, disability, or immigration status—has equal access to fellowship and scholarship opportunities, and the chance to learn from their peers to become successful STEM professionals.

OPPORTUNITIES

Discover open positions and other opportunities within the Kavli Community.

To share an opportunity please send the details to community@kavlifoundation.org.

ASTROPHYSICS

Upcoming Postdoctoral Opportunities for Fall 2022

KAVLI INSTITUTE FOR PARTICLE ASTROPHYSICS AND COSMOLOGY | STANFORD UNIVERSITY

Positions may be available in galactic magnetic fields or interstellar medium science with [Susan Clark](#), cosmic microwave background science analyses with [Kimmy Wu](#), adaptive optics instrumentation to work on the Gemini Planet Imager with [Bruce Macintosh](#), and the Rubin Observatory's Legacy Survey of Space and Time.

NANOSCIENCE

KIND Quantum-Bio Postdoctoral Fellow Program

KAVLI INSTITUTE OF NANOSCIENCE DELFT

KIND Postdoctoral Fellows are high-profile, two-year postdoctoral positions with significant independence and resources. Fellows will work in partnership with Delft faculty on a nanoscience project that involves both quantum and biological nanoscience research at KIND. Applications are due by September 1, 2021.

[LEARN MORE](#)

NEUROSCIENCE

Postdoctoral Fellows and Research Associates

KAVLI INSTITUTE FOR BRAIN AND MIND | UCSD / SALK INSTITUTE

A postdoctoral position funded by the NIH is immediately available at the Center for Neurobiology of Vision working with Dr. Thomas D. Albright and Dr. Sergei Gepshtein, who combine expertise in single-cell physiology in awake non-human primates, sensory psychophysics, and mathematical modeling of sensory mechanisms and perceptual behavior.

[LEARN MORE](#)

Dr. Xin Jin is currently seeking a highly motivated and independent postdoctoral fellow interested in studying the basal ganglia circuits and behavior. The successful candidate will employ electrophysiology and/or deep-brain imaging, together with viral tracing and optogenetics to dissect the function of specific cell types of basal ganglia circuitry in freely behaving mice.

[LEARN MORE](#)

The Asahina lab is seeking a highly motivated postdoctoral fellow who wishes to understand the neural basis of social behavior. One of the main focuses of the lab is uncovering the molecular and cellular bases of strategic action choice. The primary model organism is the fruit fly, but the lab intends to extend research into social insects as well.

[LEARN MORE](#)

THEORETICAL PHYSICS

KITP Scholars

KAVLI INSTITUTE FOR THEORETICAL PHYSICS | UCSB

The Kavli Institute for Theoretical Physics supports visiting researchers in physics who are faculty at teaching-intensive U.S. colleges. Scientists interested in this program should apply before December 15, 2021.

[LEARN MORE](#)

OTHER FIELDS

Project Assistant Professor Position on STEM Gender Research

KAVLI INSTITUTE FOR THE PHYSICS AND MATHEMATICS OF THE UNIVERSE | UNIVERSITY OF TOKYO

The Kavli Institute for the Physics and Mathematics of the Universe (Kavli IPMU) invites applicants for a 5-year, fixed-term position at the rank of Project Assistant Professor to conduct STEM gender research within Prof. [Yokoyama](#)'s group. Applicants must

hold a Ph.D. or equivalent in the field of Science and Technology Studies, Psychology, Educational Psychology, Education Economics, or a closely related field of science. Applications are encouraged before August 31, 2021.

[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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