

# UWIP

Undergraduate Women  
in Physics

## UWIP November Newsletter

### UWIP MISSION STATEMENT

Undergraduate Women in Physics (UWiP) at UCSD is an organization dedicated to promoting women and other underrepresented minorities in physics by connecting students to community support and providing academic/professional resources. Some of our most popular events include: Coffee and Tea with Professors, Study Jams, Panels, Movie Nights, Women in Physics Presentations and a lot more!

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## GENERAL ANNOUNCEMENTS

**Stay safe and congrats to first time voters and everyone that voted!**

*Self  
distancing*

IS THE NEW

**SELF  
CARE**



#StopTheSpread

**CONGRATS  
NEW VOTERS**



## ALL EVENTS FLYER

Every quarter we have a flyer with all of our planned events. The details for each event are listed on the UWIP website and will also be announced via email and on our Instagram. We hope you are as excited for these events as we are!

Check out our website for more information:  
[uwip.ucsd.edu](http://uwip.ucsd.edu)

**UWIP Fall 2020 Virtual Events**

**WEEK 0**  
10/2 - FALL GBM

**WEEK 1**  
10/9 - COMMUNITY SPACE SOCIAL

**WEEK 2**  
10/16 - COFFEE AND TEA WITH PROF. FRANO

**WEEK 3**  
10/23 - CUWIP WORKSHOP (CONFERENCE FOR UWIP)

**WEEK 4**  
10/30 - HALLOWEEN MOVIE NIGHT

**WEEK 5**  
11/6 - COFFEE AND TEA WITH PROF. BURGASSER

**WEEK 6**  
11/9 - STUDY JAM  
11/13 - COFFEE AND TEA WITH PROF. AVERITT

**WEEK 7**  
11/19 - ALUMNI WOMEN IN INDUSTRY PANEL

**WEEK 8**  
11/30 - FALL GBM #2  
12/4 - HOLIDAY MOVIE NIGHT

# MEMBER OF THE MONTH SHOUTOUT!

This month we would like to recognize and welcome Willow Strey to the UWIP fam!

Willow consistently attended our October events and we're happy to have her!

Get to know Willow, a UCSD Physics transfer:



Q: What UWIP event have you enjoyed most this quarter?

A: So far my favorite has been Coffee and Tea with Professors!

Q: What are some of your favorite hobbies/what do you like to do in your free time when you're not studying physics?

A: In my free time I study Japanese!

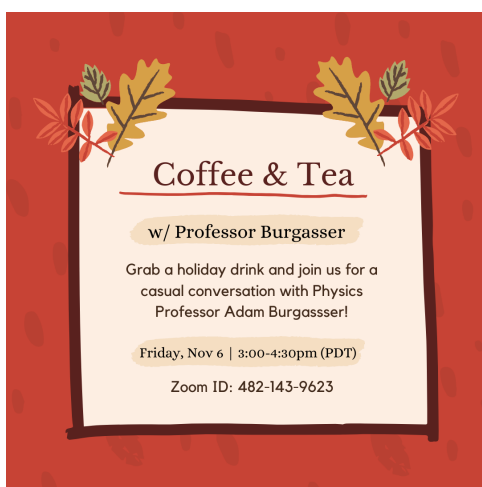
Q: Lastly \*and most importantly\*...what's your favorite movie?

A: Probably Atlantis (2001)!

# UWIP NOVEMBER EVENTS

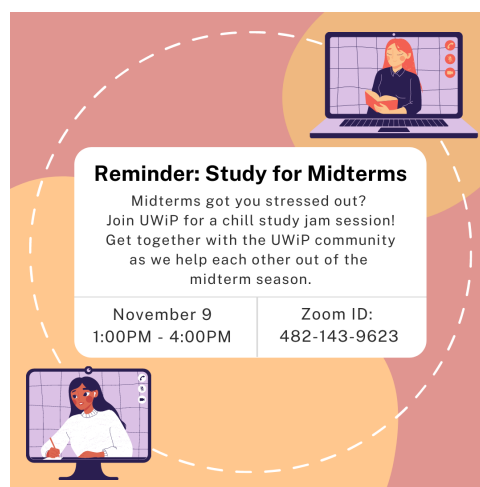
## NOVEMBER EVENTS

Below you will find all the UWIP events and their details for the month of November! Keep up your studying but don't forget to take a break to get to know your UWIP community and all our organization has to offer for our fellow peers interested in Physics!



### COFFEE AND TEA WITH PROFESSOR BURGASSER Fri 11/6

Are you in 110A or soon to be taking one of Burgasser's classes? Well, grab some coffee or tea and join us for a conversation with Professor Burgasser! Come by and learn about him and his astrophysics research. Learn a bit about him [here](#).



### MIDTERM STUDY JAM Mon 11/9

This will be a great opportunity to study with your peers in physics. We apologize that we cannot hold our typical Study Jams with snacks and bluebooks, but we still hope you are able to join us for our first Virtual Study Jam!





## COFFEE AND TEA WITH PROFESSOR AVERITT Fri 11/16

There's no such thing as too much coffee and tea! We're doubling up on this favorite event this month with Professor Averitt, who studies properties of quantum materials. Learn more about him [here](#).

## UWIP'S SECOND FALL GBM Mon 11/30

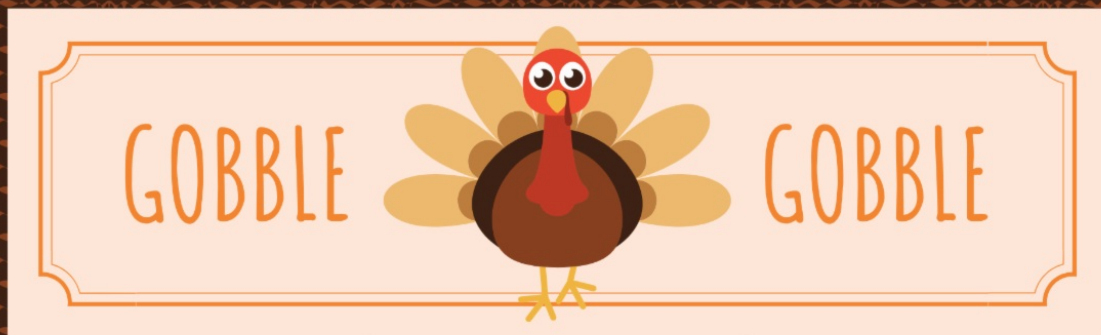
Missed our first General Body Meeting (GBM)? Don't worry! You can learn more about UWIP, what we do to support physics students, and our plans for Winter quarter at our second GBM!



## ALUMNI WOMEN IN PHYSICS INDUSTRY PANEL Thurs 11/19

Join us for a panel Q&A discussion with 3 UCSD alumni. Ask questions and learn what their experience has been as women in STEM. Special thanks to the Center for helping us make this event possible!





### Weekly Board Meetings

If you are interested in planning future events, consider attending some of our weekly board meetings. We would love to have your input! Email us for meeting details or feel free to reach one of our Co-Presidents Trinity (tcarrasc@ucsd.edu) or Mikaela (mmlarkin@ucsd.edu)



It's halfway through the quarter now, and UCSD is dishing out the inspiration and innovation to keep you going strong. We may be socially distanced, but we're still bringing our minds together!

To easily see what Physics at UCSD has in store this month, check out this awesome Google Document from Physics advisor Toni Moore!

[Fall 2020 Physics Seminars](#)

Interested in other events and opportunities for Physics majors? Toni Moore has created another amazing resource for you! Click the link below to access a calendar of Physics-related meetings, information sessions, and application deadlines.

[Events and Opportunities](#)

Want to stretch those wings a little further? Check out this list of all the departments on campus, with links for their individual pages and event

[UCSD Seminars By  
Department](#)

## Featured Seminars

***Physics Colloquium: "How stiff is graphene? Imaging bending and strain in the world's thinnest materials"***

Thursday, 11/05 @ 4:00pm

- Pinshane Y. Huang, Materials Science and Engineering, University of Illinois at Urbana-Champaign

Zoom link: <https://ucsd.zoom.us/j/93730100055?pwd=eFI2ZGw5WExKSU1JSy9lbXp1ZGxXUT09>

***HET Seminar***

Tuesday, 11/10 @ 1:00pm

- Kendrick Smith, Perimeter Institute

Zoom Meeting ID: 914 2674 5421 Password: 770795

***Astrophysics Seminar: "Solar System Archaeology: Multidisciplinary Approaches to Understanding Planetary System Formation"***

Wednesday, 11/18 @ 3:30pm

- Gerardo Dominguez, Associate Professor, CSU San Marcos

Zoom link: TBA on the [CASS Seminars](#) page

***Physics Colloquium: "Walking The World Back From the Nuclear Brink: What can Scientists do?"***

Thursday, 11/19 @ 4:00pm

- Sébastien Philippe, Princeton, School of Public and International Affairs with the Program on Science and Global Security

Zoom Link:

[https://urldefense.com/v3/\\_\\_https://ucsd.zoom.us/j/93730100055?pwd=eFI2ZGw5WExKSU1JSy9lbXp1ZGxXUT09](https://urldefense.com/v3/__https://ucsd.zoom.us/j/93730100055?pwd=eFI2ZGw5WExKSU1JSy9lbXp1ZGxXUT09)

***Stay inspired, Tritons!***





## Meet Brooke Russell

**Chamberlain Postdoctoral Fellow at Lawrence Berkeley National Laboratory**

**And the first Black woman to earn a PhD in Physics from Yale University**

In the nearly 320 years since the founding of the prestigious academic institution that is Yale University, a doctoral degree in physics had never been awarded to a Black woman until May of 2020.

Brooke Russell's trailblazing career in academia was highlighted in *Physics Today* as part of #BlackInPhysics Week which took place in late October. She shared her journey, noting that at times she felt a "sense of loneliness and isolation in physics" and that she was even mistaken for janitorial staff in physics departments, labs, or conferences. She said this was a common experience among her Black physics colleagues. Unfortunately, preconceived notions of what a physicist looks like can make situations awkward or hurtful for others, which is why raising awareness of these issues and working towards diversity is crucial to the field. Fortunately, Russell's love and intrigue for physics, along with an impactful mentorship from Princeton University professor, Frank Calaprice, where she completed her undergraduate degree, solidified the trajectory of her career in physics. Russell's specialty is in neutrino physics and she currently studies neutrino oscillations in the Deep Underground Neutrino Experiment at the Lawrence Berkeley National Laboratory.

Russell made history at Yale, all the while in pursuit of a career she loved. We commend her and all other "nontraditional" physicists who break barriers in ways large and small!

Source Credit: *Physics Today*

<https://physicstoday.scitation.org/doi/10.1063/PT.6.4.20201026c/full/>

## **Postdoc from Spain Creates Breakthrough in Magnetism and Metamaterials Research**

Dr. Rosa Mach-Batlle from the Universitat Autònoma de Barcelona is the lead author on an exciting new paper published in *Physical Review Letters*, titled "[Tailoring magnetic fields in inaccessible regions.](#)"

Dr. Mach-Batlle, collaborated with a team



of scientists from the University of Sussex and the Universitat Autònoma de Barcelona, and discovered a new way to effectively cancel magnetic fields from a distance. This technique reduces the “noise” from unwanted magnetic fields and is the first time to be accomplished at low frequencies, including biological frequencies. Because of this new breakthrough in magnetic field manipulations, there are many potential applications ranging from quantum computing to neuroimaging to biomedicine. Notably, a more accurate way of reading a patient’s brain with magnetic field scanners could be underway for doctors who treat patients with Alzheimer’s or Parkinson’s disease.



"Starting from the fundamental question of whether it was possible or not to create a magnetic source at a distance, we came up with a strategy for controlling magnetism remotely that we believe could have a significant impact in technologies relying on the magnetic field distribution in inaccessible regions, such as inside of a human body."

– Dr. Mach-Batlle

Source Credit: Phys.org

<https://phys.org/news/2020-10-physicists-circumvent-centuries-old-theory-cancel.html>

EMPOWERED WOMEN  
*empower*  
WOMEN.

Thank you for checking out our newsletter and we hope you enjoyed it. We love hearing from our general members, so don't hesitate to reach out! If you have any suggestions, questions, or would like to contribute to our newsletter team just send us an email at [uwip.ucsd@gmail.com](mailto:uwip.ucsd@gmail.com). If you loved our newsletter and would like us to feature an event of yours or you have some cool info to share for next month's newsletter, please fill out this form <https://forms.gle/uAHEXaitbpggQeS9>.

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