

Yale Department of Physics

Yale Physics Newsletter

January 5, 2018

News

Airbnb charged to a personal credit card cannot be reimbursed by Yale

See policy and instructions below:

Yale travelers are now permitted to use Airbnb for lodging provided they use their Yale email, Yale PCard and arrange the lodging through the Yale Airbnb business platform. [Click to access Airbnb.](#)

Airbnb arranged in any other manner will not be reimbursed.

How to get started:

1. [Click here to access Airbnb](#) and then click "Get Started." You will be prompted to login to your existing Airbnb account or set one up if you don't have one.
2. Next, you will be asked to enter your work email.
3. Be sure to verify your work email as soon as you receive the Airbnb verification email by clicking the "Verify Business Email" link. Verifying your work email will give you access to Yale's Airbnb platform and prioritized support, should you need it.

Website for the

above: <https://your.yale.edu/administrative-services/travel-relocation-fleet/travel/hotels/airbnb>

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Five Question Quiz Answers: 1) Benjamin Machta, 2) Simon Mochrie, 3) Not counted due to question error, 4) Meng Cheng, and 5) Maria Foley. And the winner is ... Kazemi Adachi (YC'2020 Physics & Philosophy) congratulations! Prize to be awarded at a date to be announced.

Save the Date

The 2nd Annual Symposium on Equity in the Job Search will take place on February 2, 2018. Find the schedule and more on the symposium website: <https://www.equityinthejobsearch.org/>, register by January 26 at: <https://orgsync.com/169306/events/2205480/occurrences/5258872>

Seminars

Monday, January 22 Department of Molecular, Cellular and Developmental Biology – Quantitative Biology Symposium. Lei Dai, UCLA, "Unraveling the structure of protein fitness landscapes"; Pulin Li, Caltech, "Understanding the genetic basis of biological patterning from the bottom up"; Jeffrey Moffitt, Harvard, "Imaging the transcriptome: Spatially resolved single-cell transcriptomics in culture and tissue"; Aaron McKenna, University of Washington, "Recording cell fate and single-cell state of whole organisms"; Jing Yan, Princeton, "Building a home the V. cholerae way: Biophysics of bacterial biofilms"; and Viviana Risca, Stanford, "Bridging the chromatin structure gap: Sequence-resolved local nucleosome contacts in intact cells", Maurice R. Greenberg Center (391 Prospect), 8:00am-2:45pm. Lunch and refreshments will be served. Contact [Laurie Tomei](#) for further information.

Monday, January 22 Physics Club. David Moore, Yale University, "Precision searches for new physics using optically levitated sensors", SPL 57 at 3:30pm. Host: Nir Navon. Tea after the talk in SPL 3rd Floor Lounge.

Tuesday, January 23 Center for Teaching and Learning – Diversity and Education Series with Dr. Richard Tapia of Rice University. Yale's Center for Teaching and Learning and the Department of Computer Science warmly welcome you to attend "Crisis in Representation in STEM Higher Education: A Need for New Understanding and New Leadership" with Dr. Richard Tapia of Rice University. Dr. Tapia serves as the director of the Center for Excellence & Equity in Education and the Maxfield-Oshman Professor in Engineering at Rice. He has won numerous awards for his work, including the National Medal of Science, the highest honor given to scientists and engineers by the U.S. government.

All faculty, staff, postdoctoral fellows, graduate and undergraduate students are invited to attend Dr. Tapia's presentation on Tuesday, January 23, 2018 from 4:00 p.m. to 5:00 p.m. in the Schley Room at Ingalls Rink (the Yale Whale). [Please RSVP on the CTL website.](#)

Undergraduate and graduate students are also warmly invited to attend a special Afternoon Tea with Dr. Tapia from 2 – 3 pm at Dunham Lab, Mann Engineering Student Center (Room 107) at 10 Hillhouse Avenue.

Wednesday, January 24 Department of Mathematics Colloquium. Alex Wright, Stanford, "Dynamics, geometry, and the moduli space of Riemann surfaces", LOM 215 at 4:15pm.

Thursday, January 25 Yale Physics Professional Development Organization (YPPDO) Event. Brian Frenette, Yale University Office of Career Strategy, "Transferable Skills Workshop", WL 216 at 12:00pm. Event for Graduate Students and Postdocs only. [RSVP](#) for lunch after the talk.

Thursday, January 25 Condensed Matter Seminar. Zi-Yang Meng, Institute of Physics, Chinese Academy of Science, "Title TBA", SPL 52 at 1:00pm.

Thursday, January 25 Department of Astronomy Colloquium, Eve Ostriker, Princeton, "Title TBA", WTS A-51 at 2:30pm.

For more seminars see: <http://physics.yale.edu/calendar>

Congratulations to **Jeremy Cushman** on the successful defense of his thesis "A search for neutrinoless double-beta decay in tellurium-130 with CUORE"! His advisor was Karsten Heeger.

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Congratulations to **Stefan Elrington** on the successful defense of his thesis "Developing new approaches to faster, high-spatial resolution Phosphorus-31 MR imaging of Bone"! His advisor was Sean Barrett.

Belated congratulations to the following students who will be receiving their degrees December 2017:

Stephen Horvat on the successful defense of his thesis "Measurement of the collision energy dependence of jet-quenching signatures of de-confinement at STAR", his advisor was Helen Caines. **Jacob Blumoff** on the successful defense of his thesis "Multiqubit experiments in 3D circuit quantum electrodynamics", his advisor was Rob Schoelkopf. **Evan Pease** on the successful defense of his thesis "Rare-event searches in liquid xenon with the LUX and LUX-ZEPLIN detectors", his advisor was Daniel McKinsey. **Benjamin Brubaker** on the successful defense of his thesis "First Results from the HAYSTAC axion search", his advisor was Steve Lamoreaux. **Uri Vool** on the successful defense of his thesis "Engineering synthetic quantum operations", his advisor was Michel Devoret. **Alexey Shkarin** on the successful defense of his thesis "Quantum Optomechanics with Superfluid Helium", his advisor was Jack Harris. And **Brian Tennyson** on the successful defense of his thesis "Two Phase Liquid-Gas Xenon Time Projection Chambers: Theory, Applications, and Analysis", his advisor was Daniel McKinsey.

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Sarah Demers (Horace D. Taft Associate Professor of Physics) was on Science Friday to help answer "The Biggest Questions of Physics". [Click here](#) for the full story.

For more news please see <http://physics.yale.edu/news>

[Announcements](#)

For further information on any of the items included here or if you would like to contribute to the next newsletter, send email to [Daphne Klemme](mailto:Daphne.Klemme).

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Please [click here](#) for updates on the Yale Science Building, including a new logistics plan. The project encompasses the construction of a new state of the art

sciences laboratory at the approximate location of the demolished J.W. Gibbs building, a comprehensive renovation of the KBT Plaza, a lecture hall, and a common area at the south end of KBT Plaza.

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NIST – Applications are now being accepted for two new NIST Precision Measurement Grants to be awarded beginning October 1, 2018. Each grant is in the amount of \$50,000 per year, renewable for up to two additional years, for a total of \$150,000. Candidates' abbreviated proposals must reach NIST by February 2, 2018, to be considered for these awards. [Click here](#) for full announcement.