Stanford Graduate Student Orientation 2018 SLAC Session - Introduction

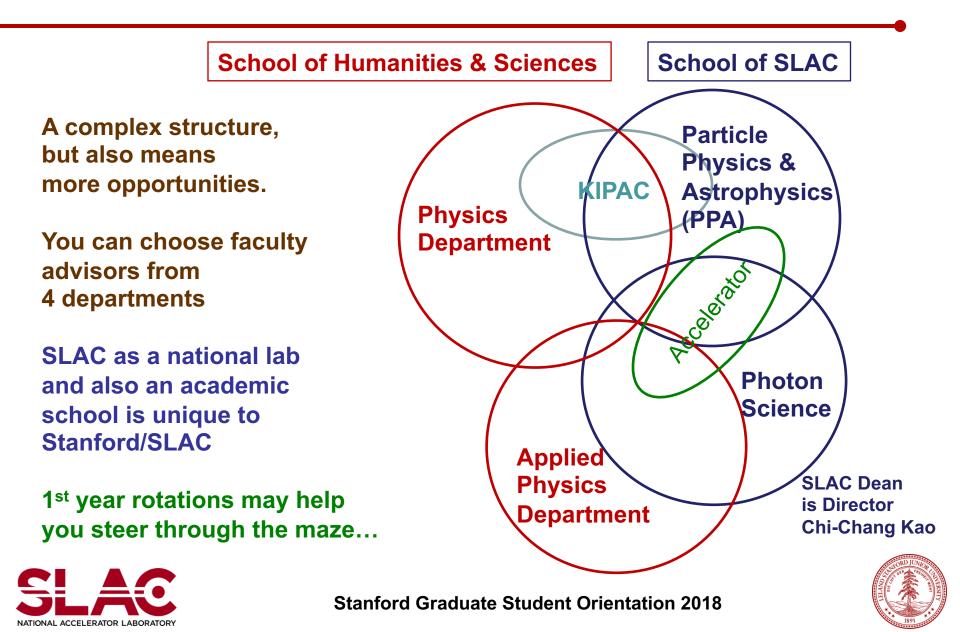
Su Dong On behalf of Ariel Schwartzman Aaron Roodman, PPA Faculty Chair Piero Pianetta, Photon Science Faculty Chair JoAnne Hewett, Chief Research Officer





Stanford Graduate Student Orientation 2018

The Stanford Physics Community



Research at SLAC

Diverse research activities at SLAC are summarized at <u>https://www6.slac.stanford.edu/research</u>

- Accelerator Research
- Astrophysics and cosmology
- Elementary particle physics
- Environmental Science
- Materials, Chemistry & Energy Sciences
- Matter in Extreme Conditions
- Scientific Computing
- X-ray Science





Resources at SLAC

- The vast resources at national lab is for you to take advantage of for your own education
 - Accelerator facilities
 - Staff scientists with broad range of expertise
 - Computing and software expertise
 - Engineering expertise
 - Schools, Workshops, Colloquia, Seminars
- <u>Marguerite shuttles</u>

SLAC Line operates 7:30am~8:30pm between campus and SLAC ~every 20min on week days. Line S has peak hour services between campus, Palo Alto CalTrain station and SLAC.







SLAC Contacts and Information

- SLAC PPA faculty:
 - Chair: Prof. Aaron Roodman
 - Graduate Student Program: Prof. Ariel Schwartzman
 - Graduate Student Support: Adrienne Higashi
 - PPA faculty list: <u>https://faculty.slac.stanford.edu/particle-physics-astrophysics-faculty</u>
 - PPA student info: <u>http://www.slac.stanford.edu/gen/grad/</u>
- SLAC Photon Science faculty:
 - Chair: Prof. Piero Pianetta
 - PS faculty list: <u>https://faculty.slac.stanford.edu/photon-science-faculty</u>





SASS: SLAC Association for Student Seminars

Our Mission

- SASS is a student-run organization whose goal is to build a student community that supports learning, communication skill development, and exploration of research and careers
- We host seminars delivered by SLAC students (not limited to physics grad students)
- Practice your qual. talk, conference talk, thesis defense, etc.
 Or just improve your public speaking abilities!
- Talks can be on *any* topic of your choice!

Science-related....

	Aug 22	How Modern Particle Physics Came to Be	Sanha Cheong		
	Aug 8	Exploring Neutrino Physics	Philip Weigel		
	Aug 1	Hunting for Dark Matter with the LUX-ZEPLIN Experiment	Tomie Gonda and Ryan Linehan		
	Jul 25	X-Ray Techniques Through History	Kathryn Ledbetter		
	Jul 18	LSST at SLAC: Building the World's Largest Digital Camera	Adam Snyder		
	Apr 26	Introduction to Neural Networks	Kareem Hegazy		
	Apr 19	Physics of Roman Aqueducts	Kathryn Ledbetter		
	Apr 12	New Long-Lived Particle Searches at the LHC	Rob Mina		
	Mar 15	Intermittency in Solar Wind Plasma: Finding the Missing Dissipation	Kathryn Ledbetter		
	Mar 8	On the Theory of Time-Dependent X-Ray Scattering	Matt Ware		
	Mar 1	Invisible Fastballs: A Discussion of Ultra-High-Energy Astrophysical Neutrinos	Ryan Linehan		

Or not!

Mar 14	An Exploration of Free Will	Shaun Alsum
Mar 7	Cryptocurrency for Physicists	Sean McLaughlin and Dylan Reuter
Feb 28	So you think you're a good person: a moment for self judgement.	Aude Glaenzer
Feb 21	A Trip to Monte Carlo	Kathryn Ledbetter
Feb 14	What is LSST and when is it going to be finished?	Adam Snyder
Feb 7	How to Fake It on the Gig	Chris Davis
Jan 31	Meme Topology	Tomie Gonda



SASS: SLAC Association for Student Seminars

Next up: autumn quarter organizational meeting

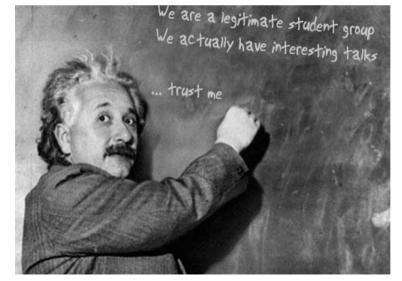
- Next Thursday, September 27th, 12:30 PM
- SLAC Kavli building, 3rd floor conference room
- Discuss meeting times, schedule talks throughout the quarter, enjoy free pizza

Questions? Contact the current czars:

- Sanha Cheong (ATLAS Group, <u>sanha@slac.stanford.edu</u>)
- Tomie Gonda (LZ Group, tggonda@slac.stanford.edu)

or visit our website: https://www.slac.stanford.edu/slac/sass/

Stay tuned for announcement email(s)!





SLAC Orientation Program

Time	Program/Presentation	Speaker
9:009:15	Introduction	Su Dong
9:209:40	Accelerator Physics	Agostino Marinelli
9:4510:05	LCLS	Michael Minitti
10:1010:30	SSRL	Simon Bare
10:4010:50	Break	
10:5011:00	Particle Physics Theory	Alex Friedland
11:1511:35	Particle Physics Experiments	<u>Hiro Tanaka</u>
11:4020:00	Particle-Astro Experiments	Tom Shutt
12:0512:25	Cryo-Em	Wah Chiu
12:3014:00	Panofsky lobby Lunch + Poster session	
	Conversations between students and faculty/s	staff
14:00—17:00	Open office/lab	



