## NSF NRT Annual Graduate Trainee Symposium on Machine Learning and Physical Sciences (MAPS)

Wednesday, May 30, 2018		
10:00 am - 10:05 am	Welcome Professor Padhraic Smyth Department of Computer Science	
	University of California, Irvine	
10:05 am - 10:15 am	"Deep learning in high energy physics"  Julian Collado (Computer Science), Gregor Urban (Computer Science), Daniel Guest (Physics & Astronomy), Shih-Chieh Hsu (Physics, University of Washington), Daniel Whiteson (Physics & Astronomy), Pierre Baldi (Computer Science)	
10:15 am - 10:25 am	"Learning Physics from the Machine" <b>Taylor Faucett</b> (Physics and Astronomy), Daniel Whiteson (Physics & Astronomy), Edison Weik (Physics & Astronomy), Jesse Thaler (Center for Theoretical Physics, MIT)	
10:25 am - 10:35 am	"Statistical methods for prediction and forecasting of fire events in Alaskan boreal forests"	
	Casey Graff (Computer Science), Shane Coffield (Earth Systems Science), Yang Chen (Earth Systems Science), Efi Foufoula-Georgiou (Civil & Environmental Engineering), James T. Randerson (Earth Systems Science), and Padhraic Smyth (Computer Science)	
10:35 am - 10:45 am	"Human Carbon-Cycle Feedbacks to Global Warming May Offset Natural Feedbacks"	
	<b>Dawn Woodard</b> (Earth Systems Science), Steven J. Davis (Earth Systems Science), and James T. Randerson (Earth Systems Science)	
10:45 am - 10:55 am	"Arctic sea-ice thickness variability and its influence on the atmospheric response to projected sea ice loss"	
	<b>Zachary Labe</b> (Earth Systems Science), Yannick Peings (Earth System Science), Hal Stern (Statistics), and Gudrun Magnusdottir (Earth System Science)	
10:55 am - 11:05 am	"Infrared Contributions of X-ray Selected Active Galactic Nuclei in Dusty Star-forming Galaxies"	
	Arianna Brown (Physics & Astronomy), Hooshang Nayyeri (Physics and Astronomy), Asantha Cooray (Physics and Astronomy), Jingzhe Ma (Physics & Astronomy), Ryan C. Hickox (Physics & Astronomy, Dartmouth College), and Mojegan Azadi (Harvard-Smithsonian Center for Astrophysics)	

11:05 am - 11:15 am	"Development and Progress of an Improved Chemical Shift Prediction Algorithm"
	<b>Kyle W. Roskamp</b> (Chemistry), Eric Casavant (Physics & Astronomy), Carter T. Butts (Sociology, Statistics), Rachel W. Martin (Chemistry)
11:15 am - 11:25 am	"SHERPA: Hyperparameter Optimization for Machine Learning Models"
	Lars Hertel (Statistics), Peter Sadowski (Computer Science), Julian Collado (Computer Science), Pierre Baldi (Computer Science)
11:30 am - 12:15 pm	Keynote Speaker:
	"From Space to Cyberspace: How is Big Data Changing Astronomy (and Other Fields)"
	Professor George Djorgovski
	Department of Physics, Mathematics and Astronomy
	California Institute of Technology
12:15 pm - 12:20 pm	Closing Remarks
	Professor Padhraic Smyth
	Department of Computer Science
	University of California, Irvine
12:20 pm - 1:30 pm	Lunch and Networking