



**Exoplanet Imaging and Characterization:
Coherent Differential Imaging and Signal Detection Statistics**

**August 22-26 2016
Overview Schedule**

Monday, August 22, 2016 - Hameetman Auditorium, Cahill Building - Caltech

**Short Course: Mastering the Wave - The Whys and Hows of Exoplanet Imaging
Introductory Lectures - Open to all interested students, researchers and faculty**

Time	Event	Speaker
8:15 - 8:45	Coffee and Refreshments	
8:45 - 9:00	Logistics / Introduction to Short Course	Michele Judd Team Leads
9:00 - 10:00	Exoplanet Direct Imaging Science (45 min talk, 15 min Q&A)	Karl Stapelfeldt
10:00 - 11:00	Exoplanet High Contrasting Imaging Technologies (45 min talk, 15 min Q&A)	Eric Cady Jared Males
11:00 - 11:30	Break	
11:30 - 12:30	An Overview of Machine Learning Approaches: Applications to Exoplanet Detection (45 min talk, 15 min Q&A)	Rob Fergus
12:30 - 1:30	Short Course Ends: Informal Lunch is provided on Cahill Patio	

**Invitation-Only Workshop Begins
Keck Center - Think Tank, Room 155**

1:30 - 1:45	Walk to Keck Center, pick up badge and welcome packet, find seat in the Think Tank	
1:45 - 2:30	Workshop Logistics and Introduction to KISS	Michele Judd Tom Prince
2:30 - 3:00	Participant Introductions	Michele Judd
3:00 - 3:30	Study vision and goals for this workshop	Team Leads
3:30 - 4:00	Break	
4:00 - 5:00	Finalize study vision and workshop goals via plenary discussion	Team Leads
5:00 - 5:30	Solicitation of Lightning Talks	Team Leads
5:30 - 6:00	Pack up and walk to the Athenaeum	All
6:00	Dinner at the Athenaeum	

Tuesday August 23, 2016 - Keck Center - Think Tank, Room 155

Time	Event	Speaker
7:30 - 8:30	Institute open for free think time, Tolman/Bacher House rooms available	
8:30 - 9:00	Coffee and informal breakfast pastries / free think time continued	
9:00 - 9:15	Logistics and Team Lead Update	Michele Judd Team Leads
9:15 - 9:45	Wavefront Control (20 mins plus 10 mins Q&A)	A. J. Riggs
9:45 - 10:15	Detector Technology (20 mins plus 10 mins Q&A)	Ben Mazin
10:15 - 10:45	Break	
10:45 - 12:15	Determine breakout teams and begin breakout sessions	All
12:15 - 12:30	Group picture, walk to the Athenaeum	
12:30 - 2:00	Lunch at the Athenaeum	
2:00 - 2:45	Report outs from breakout groups (15 mins each)	Groups
2:45 - 3:30	Early Career Participant Research Briefs/Talks	Early Career Participants
3:30 - 4:00	Break	
4:00 - 5:00	Early Career Participant Research Briefs/Talks	Early Career Participants
5:00 - 7:00	POSTER SESSION and Informal food truck dinner at the Keck Center (dinner starts at 6:30 pm)	

Wednesday, August 24, 2016 - Keck Center - Think Tank, Room 155

7:30 - 8:30	Institute open for free think time, Tolman/Bacher House rooms available	
8:30 - 9:00	Coffee and informal breakfast pastries / free think time continued	
9:00 - 9:15	Logistics and Team Lead Update	Michele Judd Team Leads
9:15 - 9:45	Post-Processing (20 mins plus 10 mins Q&A)	Laurent Pueyo
9:45 - 10:30	Lightning talks (3 - each 10 mins plus 5 mins Q&A)	TBD by participants
10:30 - 11:00	Break	
11:00 - 12:30	Breakout Groups Meet	All
12:30 - 2:00	Lunch at the Athenaeum	
2:00 - 3:00	Breakouts (continued)	All
3:00 - 3:45	Return to Plenary Session, Breakout Groups Report Out	All
3:45 - 4:15	Break	
4:15 - 5:15	Lightning talks (4 - each 10 mins plus 5 mins Q&A)	Groups
5:15 - 5:45	Plenary Discussion, selection of final breakout groups	All
5:45	Pack up and drive to dinner	All
6:00	Optional: Organized no-host dinner in Pasadena (KISS to host postdocs and grad students)	

Thursday, August 25, 2016 - Keck Center - Think Tank, Room 155

7:30 - 8:30	Institute open for free think time, Tolman/Bacher House rooms available	
8:30 - 9:00	Coffee and informal breakfast pastries / free think time continued	
9:00 - 9:15	Logistics and Team Lead Update	Michele Judd Team Leads
9:15 - 10:15	Final Lightning Talks (4 - each 10 mins plus 5 mins Q&A)	Groups
10:15 - NOON	Breakout Groups Meet (teams are encouraged to include a short break on a team by team basis)	All
NOON - 2:00	Lunch on your own / free think time	
2:00 - 2:45	Return to Plenary Session, Breakout Groups Report Out	All
2:45 - 3:30	Plenary Discussion about next steps, outcomes and recommendations for the next 1-10 years	All
3:30 - 4:00	Break	
4:00 - 4:45	Plenary Discussion (continues)	Groups
4:45 - 5:45	Breakout Groups Meet: Advocacy Session	All
5:45	Pack up and walk to Athenaeum	All
6:00	Dinner at the Athenaeum (with spouses / significant others / special guests)	

Friday, August 26, 2016 - Keck Center - Think Tank, Room 155

Time	Event	Speaker
7:30 - 8:30	Institute open for free think time, Tolman/Bacher House rooms available	
8:30 - 9:00	Coffee and informal breakfast pastries / free think time continued	
9:00 - 9:15	Logistics and Team Lead Update	Michele Judd Team Leads
9:15 - 9:45	Report Out from Breakout Groups	All
9:45 - 12:30	Writing Breakout Groups	All
12:30 - 1:30	Informal Lunch at the Institute	
1:30 - 2:00	Plenary Session - Report Out Open Topics from Writing Sessions	All
2:00 - 3:00	Plenary Session Discussion - Future Funding Opportunities, Follow-Up Studies, Other Workshops and Proposals	All
3:00 - 3:30	Break	
3:30 - 4:30	Post Workshop Activities and Assignments - Group Discussion	All
4:30 - 5:00	Workshop Closeout	Michele Judd
5:00	Workshop Concludes	