



Data-Driven Approaches to Searches for the Technosignatures of Advanced Civilizations

May 20 - 24, 2019
Overview Schedule

Monday, May 20, 2019
Hameetman Auditorium, Cahill Center - Caltech

Short Course: Data Driven Approaches to Searches for Technosignatures
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	Michele Judd Team Leads
9:00 - 9:45	Extrasolar Planets, Life, and Technosignatures	Jason Wright
9:45 - 10:30	The Astronomy Data Landscape and Observable Parameter Spaces	George Djorgovski
10:30 - 11:00	Break	
11:00 - 11:45	Detecting the Unexpected: An Introduction to Anomaly Detection Methods	Kiri Wagstaff
11:45 - 12:30	An Introduction to Time Series Analysis	Matthew Graham
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 and 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, May 21, 2019 - Keck Center - Think Tank, Room 155

Time	Event	Speaker
8:00 - 8:30	Institute Opens - FREE THINK TIME	
8:30 - 9:00	Coffee and Refreshments at Keck Center	
9:00 - 9:15	Logistics and Team Lead Goals for the Day	Michele Judd and Team Leads
9:15 - 10:00	Special Topic: Information Theory	Victoria Kostina
10:00 - 10:30	Lightning Talks (2)	TBD by participants
10:30 - 11:00	Break	
11:00 - 11:15	Selection of Breakout Groups and Topics	All
11:15 - 12:30	Breakout Groups Meet	Groups
12:30 - 2:00	Group Picture and Lunch at the Athenaeum	
2:00 - 2:45	Report outs from breakout groups (15 mins each)	Groups
2:45 - 3:15	Lightning Talks (2)	TBD by participants
3:15 - 3:30	Selection of Breakout Groups and Topics	All
3:30 - 4:00	Break	
4:00 - 5:30	Breakout Groups Meet	Groups
5:30 - 7:30	POSTER-ish SESSION and informal food truck dinner at the Keck Center (dinner starts at 6:30 pm)	

Wednesday, May 22, 2019 - Keck Center - Think Tank, Room 155

Time	Event	Speaker
8:00 - 8:30	Institute Opens - FREE THINK TIME	
8:30 - 9:00	Coffee and Refreshments at Keck Center	
9:00 - 9:15	Logistics and Team Lead Goals for the Day	Michele Judd and Team Leads
9:15 - 9:45	Report Outs from Breakout Groups (10 mins each)	Groups
9:45 - 10:30	Special Topic #2: Thinking Like a Non-Human	Denise Herzing
10:30 - 11:00	Break	
11:00 - 11:45	Lightning talks (3)	TBD by participants
11:45 - 12:30	Plenary Discussion, Selection of Breakout Groups and Topics	All
12:30 - 2:00	Lunch at the Athenaeum	
2:00 - 3:30	Breakout Groups Meet	All
3:30 - 4:00	Break	
4:00 - 4:45	Report outs from breakout groups (15 mins each)	Groups
4:45 - 5:30	Plenary Discussion on Participant Wants and Needs Selection of Next Day's Breakout Groups	All
5:30	Workshop Day #3 Ends	All
6:00	OPTIONAL: No-Host Dinner in Pasadena	

Thursday, May 23, 2019 - Keck Center - Think Tank, Room 155

Time	Event	Speaker
8:00 - 8:30	Institute Opens - FREE THINK TIME	
8:30 - 9:00	Coffee and Refreshments at Keck Center	
9:00 - 9:15	Logistics and Team Lead Goals for the Day	Michele Judd and Team Leads
9:15 - 10:00	Special Topic 3: Computational Biology	Lior Pachter
10:00 - 10:30	Lightning talks (2)	TBD by participants
10:30 - 11:00	Break	
11:00 - 12:30	Breakout Groups Meet	All
12:30 - 2:00	Lunch on your own	
2:00 - 2:30	FREE THINK TIME (individual, or self organizing small groups)	All
2:30 - 3:15	Report outs from breakout groups (15 mins each)	Groups
3:15 - 3:30	Plenary Discussion, Selection of Breakout Groups	All
3:30 - 4:00	Break	
4:00 - 5:30	Break Out Sessions	Groups
5:30	Workshop Day #4 Ends	All
6:00	Dinner at the Athenaeum (with spouses and significant others)	

Friday, May 24, 2019 - Keck Center - Think Tank, Room 155

Time	Event	Speaker
8:00 - 8:30	Institute Opens - FREE THINK TIME	
8:30 - 9:00	Coffee and Refreshments at Keck Center	
9:00 - 9:15	Logistics and Team Lead Goals for the Day	Michele Judd and Team Leads
9:15 - 10:00	Breakout Groups Report Out	All
10:00 - 10:30	Open Discussion of Breakout Group Recommendations and Group Feedback	All
10:30 - 11:00	Break	
11:00 - 12:30	Open Discussion of Breakout Group Recommendations and Group Feedback (continued)	All
12:30 - 1:30	Lunch at the Institute	
1:30 - 2:30	Possible Break Out Groups / Advocacy / Illustrations / Path Forward	All
2:30 - 3:30	Outline of Final Report	All
3:30 - 4:00	Break	
4:00 - 4:45	Final Study Activities and Assignments - Group Discussion	All
4:45 - 5:00	Workshop Closeout	Michele Judd
5:00	Workshop Concludes	