



2025 Sagan Summer Workshop

Silver Jubilee: Exoplanet Demographics

July 21-25, 2025

All times are Pacific Daylight Time



Monday, July 21		
8:30 AM	Welcome and Opening Comments	Tom Greene (IPAC Director), Chas Beichman (NExSci Executive Director), Tracy Chen (Caltech/IPAC-NExSci)
9:00 AM	From 51 Peg to 5700 Exoplanets: 30 Years of Exoplanet Demographics	Didier Queloz (Cambridge, remote)
9:45 AM	Break	
10:00 AM	Panel: What is a planet?	Mike Brown (Caltech), Sally Dodson-Robinson (University of Delaware), Todd Henry (Georgia State, remote), and Matthew Penny (LSU), moderated by Eric Nielsen (NMSU)
11:00 AM	Demographics Synthesis Talk	Christoph Mordasini (University of Bern, remote)
11:45 AM	Poster Pops I	
12:15 PM	Lunch and Poster Session I	
2:15 PM	Introduction to Hands-On Sessions	
3:15 PM	The Planetary Science Journal	Brian Jackson (Boise State)
3:25 PM	Demographics of Workshop Attendees	Elise Furlan (Caltech/IPAC-NExSci)
3:40 PM	Break	
4:10 PM	Career Panel	Pierre Christian (WattTime, remote), Farisa Morales (JPL), Arpita Roy (Schmidt Sciences, remote), and Anjali Tripathi (JPL), moderated by Dawn Gelino (JPL)
5:00 PM	Adjourn and optional Dinner	
Tuesday, July 22		
8:30 AM	Planet Formation and Evolution	Eve Lee (UCSD)
9:15 AM	Twenty-Five Years of Transiting Planets	Joshua Winn (Princeton)
10:00 AM	Break	
10:30 AM	From Wobbles to Worlds: The Role of Precision Radial Velocities in Exoplanet Discovery and Characterization	Jennifer Burt (JPL)
11:15 AM	Detecting and Weighing Exoplanets with Absolute Astrometry	Tim Brandt (STScI)
12:00 PM	Lunch	
1:30 PM	Hands-On Session I: Exoplanet Occurrence Rates	Ilaria Pascucci (Arizona/LPL), Galen Bergsten (Arizona/LPL), and Gijs Mulders (Pontificia Universidad Católica de Chile)
4:30 PM	Adjourn	
Wednesday, July 23		
8:30 AM	Cold Exoplanet Demographics from Jupiter to Mars Mass with Microlensing Surveys	Matthew Penny (LSU)
9:15 AM	Detection Techniques: Direct Imaging	Eric Nielsen (NMSU)
10:00 AM	Break	
10:30 AM	System Architectures	Courtney Dressing (UC Berkeley)
11:00 AM	Exoplanet Demographics across Stellar Mass and Time	Ilaria Pascucci (Arizona/LPL)
11:30 AM	Poster Pops II	
12:00 PM	Group Picture	
12:15 PM	Lunch and Poster Session II	
2:00 PM	Hands-On Session II: Distant Giant Planets with Astrometry	Brendan Bowler (UCSB), Tim Brandt (STScI), Rocio Kiman (Caltech), and Kyle Franson (UT)
5:00 PM	Adjourn	
Thursday, July 24		
8:30 AM	Gas Giant Demographics	Brendan Bowler (UCSB)
9:00 AM	What is a sub-Neptune?	BJ Fulton (NExSci)
9:30 AM	The New Landscape of Exoplanet Atmospheres as Revealed by JWST	Johanna Teske (EPL)
10:00 AM	Break	
10:30 AM	Demographics of Planets Orbiting M Stars	Emily Pass (MIT)
11:00 AM	Panel: Demographics of Life in the Universe	Laurie Barge (JPL), Jessie Christiansen (NExSci), Lisa Kaltenegger (Cornell, remote), and Jason Wright (Penn State, remote), moderated by Chas Beichman (NExSci)
12:00 PM	Lunch	
1:30 PM	Hands-on Session: Group Projects	
5:00 PM	Adjourn and optional Dinner	
Friday, July 25		
8:30 AM	Towards a Chemical Survey of Exoplanets	Giovanna Tinetti (UCL)
9:00 AM	Future Exploration of Key Planetary Processes and Trends in the Sub-Neptune Population	Daniel Apai (Arizona/LPL)
9:30 AM	Future Work on Potentially Habitable and Inhabited Rocky Planets	Jacob Lustig-Yaeger (APL)
10:00 AM	Break	
10:30 AM	What Makes a Survey Useful for Demographics	Jessie Christiansen (Caltech/IPAC-NExSci)
11:00 AM	The Future of Radial Velocity Planet Demographics	Debra Fischer (Yale)
11:30 AM	The Future of Transiting Exoplanet Searches from Space in the Next Decade	Heike Rauer (DLR, remote)
12:00 PM	Lunch	
1:30 PM	The Future of Direct Imaging Planets with Roman & HWO	Vanessa Bailey (JPL)
2:00 PM	The Future of Planetary Atmospheres with JWST, Ariel, HWO, and Ground-Based Telescopes	Mark Swain (JPL)
2:30 PM	Break	
3:00 PM	Group Project Presentations	
4:45 PM	Closing Comments	Elise Furlan (Caltech/IPAC-NExSci)
5:00 PM	Adjourn	