

Neuropixel / OpenScope Workshop Agenda

Day 1: Wednesday, July 9th – Foundations Workshop

Time	Topic	Presenter
8:30 – 9:00	Arrival/Breakfast	
9:00 – 9:30	Welcome, Agenda, Split groups	Josh Siegle Jérôme Lecoq
9:30 – 9:40	<i>Transition Time</i>	
9:40 – 10:40	Rotating Lab Tour Station 1	
10:40 – 10:50	<i>Transition Time</i>	
10:50: – 11:50	Rotating Lab Tour Station 2	
11:50 – 12:00	<i>Transition Time</i>	
12:00 –1:00	Lunch w/ networking	
1:00 – 1:10	<i>Transition Time</i>	
1:10 – 2:10	Rotating Lab Tour Station 3	
2:10 – 2:20	<i>Transition Time</i>	
2:20 – 3:20	Rotating Lab Tour Station 4	
3:20 – 3:30	<i>Transition Time</i>	
3:30 – 4:00	Engineering Overview	Heston Smith Alan Guthrie
4:00 – 5:00	Discussion Tables with Station Leads	Station leads, SciComp internal staff
5:00 –7:00pm	Happy hour – SLU BRU (700 Dexter Ave N Suite 230)	

List of rotating lab tour stations (order different for each group):

- **Surgery – Led by Ali Wiliford**
- **2Photon & Intrinsic Signal Imaging – Led by Shiella Caldejon**
- **Behavior & SmartSPIM Imaging – Led by Jackie Swapp and Mike Taormina**
- **Electrophysiology – Led by Josh Siegle and Severine Durand**

Day 2: Thursday, July 10th – Foundations Workshop

Time	Topic	Presenter
8:30 – 9:00 am	Breakfast	
9:00 – 9:45 am	Bonsai + Harp (45 min)	Gonçalo Lopes (Virtual)
9:45 - 10:15 am	Modular Behavior task software/hardware (30 min)	Bruno Cruz
10:15 – 10:45am	Trajectory Planning (30 min)	Dan Birman
10:45 – 11:00 am	Break	
11:00 – 11:45 am	Neuropixels data acquisition (45min)	Josh Siegle and Anjal Doshi
11:45 – 12:30 pm	Kilosort + phy (45min)	Nick Steinmetz
12:30 – 1:30 pm	Lunch	
1:30 – 2:00 pm	Chronic Neuropixels (30 min)	Yoh Isogai / João Couto (virtual)
2:00 – 2:30 pm	DataJoint for Neuropixels (30 min)	Dimitri Yatsenko
2:30 – 3:00 pm	Code Ocean (30 min)	David Feng and Saskia de Vries
3:00 – 3:15 pm	Break	
3:15 – 3:45 pm	Code Ocean Pipeline (30 min)	Arielle Leon, Dan Birman
3:45 – 4:15 pm	OpenScope intro: NWB, Databook (30 min)	Jérôme Lecoq, Ahad Bawany, Carter Peene
4:15 – 4:45 pm	OpenScope : Predictive Processing Community-Driven project (30 min)	Jérôme Lecoq
5:00 – 7:00 pm	Happy Hour – at Allen Institute	

Day 1: Lab Tour Groups

Below are your assignments for the group lab tours. You will move to each station with your group and for some stations, you will break into subgroups a and b. Your group assignment can also be found on your name tag.

Group 1	
1a	1b
Zahra Amer	Audrey Jordan
Gokce Gurler	Nate Jones
Fernando Pena	Mohammed Al-youzbaki
Jhulimar Doerl	Ahmed AbouShanab
Zahra Alizadeh	Pankaj Gupta

Group 2	
2a	2b
Suraj Honnuraiah	Harris Kaplan
Nishtha Ranawat	Sophie Yichen Qiu
Roberto Lopez Ruiz	Rose Hulsey-Vincent
Pramod KC	Andrea Trevisiol
Alessandro Armitano	Gustavo Balbinot
Richard Drexler	

Group 3	
3a	3b
Alex Wang	Jessie Ma
Dani Lemmon	Ting Feng
Christos Lisgaras	Cristina Alcacer
Pierre Platel	Adi Kol Harpaz
Jessie Jin	Keith Skaggs

Group 4	
4a	4b
Mengping Jiang	Yilan Liang
Esra Altun	Katherine Kaplan
Kaiser Arndt	Alyssa Ash
Garima Chauhan	Jonathan Ting
Leonor Afrima	Serol Turkeyilmaz
Arnaldo Ferreira Gomes Da Silva	

Protocols.io

Part of Allen Institute for Neural Dynamic's effort toward open science is making our protocols available publicly on Protocols.io. Some of the stations you will visit on Day 1 have associated protocols that you can follow along with.

Surgery:

General Set-up and Take Down



Behavior:

Mouse Water Restriction



Mouse Habituation – Head Fixation on Disks



SmartSPIM Imaging:

Imaging



Alignment



Electrophysiology:

Plug Removal



Agarose



SHIELD Implant



Day 3: Friday, July 11th - Advanced Neuropixels at UW

Time	Location	Topic	Presenter
8:30 AM	SOCC 316	Breakfast	
9:00 – 9:30 AM	SOCC 316	CCF Registration	Mayo Faulkner (virtual)
9:30 – 10:00 AM	SOCC 316	SpikelInterface	Chris Halcrow (virtual)
10:00 – 10:30 AM	SOCC 316	Sorting Quality Metrics	Nick Steinmetz
10:30 – 10:45 AM	SOCC 316	Break	
10:45 – 11:15 AM	SOCC 316	Neuropixels 2.0 / Practicalities	Jordan Shaker
11:15 – 11:45 AM	SOCC 316	Neuropixels Ultra	Andrew Shelton
11:45 AM – 12:15 PM	SOCC 316	Neuropixels Opto	Anna Lakunina
12:15 - 1:30 PM	SOCC 316	Lunch	
1:30 - 4:30 PM		Lab rotations	
	Steinmetz Lab	Station 1: NP (+ widefield) @ Rainier/IBL	Kim Miller + Anna Li / Zhiwen Ye
	Steinmetz Lab	Station 2: Sharpening	Jordan Shaker
	Health Sciences Library	Station 3: Pinpoint / co-pilot	Dan Birman / Kenneth Yang
	Health Sciences Library	Station 4: Phy	Josh Siegle
	Health Sciences Library	Station 5: Phy	Nick Steinmetz
4:30 - 5 PM	SOCC Terrace	Course end / happy hour	

Directions to UW Campus

A free shuttle runs between the UW South Lake Union campus and the main UW Campus every 30 minutes. You can board the shuttle at the stop on Republican St (between 8th & 9th Ave N), and it will take you directly to the D-Wing stop at the UW Campus. From there, members of the Steinmetz Lab will meet you and walk you to the workshop location.

To attend breakfast on Day 3, please take the 8:00 AM shuttle from the UW SLU campus. If you prefer to skip breakfast, the 8:30 AM shuttle is also an option. See detailed schedule [here](#).

Please be aware that shuttle capacity is limited to 20 passengers per trip and may fill quickly.

If the shuttle is full, please consider alternative transportation options.

For those staying in the SLU area, King County Metro Route 70 provides service from Eastlake (Fairview Ave & Denny Way) to the UW campus (NE 43rd St & Brooklyn Ave NE), followed by a 20-minute walk to the UW Medical Center.

To locate the workshop rooms, please refer to the map below.

