Starting in 2021, the Deisseroth lab will be offering remote (pandemic-compatible) versions of their training workshops via Zoom. Online workshops will be offered on the following techniques: optogenetics, fiber photometry, CLARITY, and STARmap. Details on the workshop format for each technique are listed below.

REGISTRATION INFORMATION

Workshops will be scheduled based on demand with an effort to maintain small training groups for a personal experience.

For information contact Dr. Maisie Lo: maisielo@stanford.edu

To register for a workshop or ask further questions, please email the education manager above with the following information:

- Your name
- Your institution
- Your position (graduate student, postdoc, etc.)
- Your PI’s name (if applicable)
- Which workshop(s) you would like to attend
- If applicable, please also indicate if you receive financial support through NeuroNex or NIDA

WORKSHOP DETAILS

The remote training workshops will be facilitated over Zoom and scheduled according to the Pacific Standard Time zone. Each workshop will be about a week long, with daily online training sessions lasting roughly 1-3 hours. Training sessions will contain a variety of formats including interactive presentations, live and recorded video demonstrations, and Q&A feedback discussions with lab experts. All workshops are provided at no cost to the participants. Previews of the content and schedule for each training workshop are outlined below:
**Optogenetics Remote Workshop**

6-7 days, 1-2 hours per day

- Virtually meet and greet instructor and participants.
- Discuss workshop schedule and optogenetics toolbox.
- On-line reading materials provided.

**Fiber Photometry Remote Workshop**

6-7 days, 1-2 hours per day

- Virtually meet and greet instructor and participants, overview of schedule.
- Presentation and discussion on fiber photometry parts and tools, viral expression strategies and the A-2 of GCAMP calcium indicator.

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**Optogenetics Overview**

- Overview of materials and equipment for behavior testing.
- Step-by-step behavior procedural videos led by instructor in real-time.

**Opto-stimulated Behavior Testing**

- Presentations and discussions of complementary optogenetic technologies (Clarity, fiber photometry, GCaMP, etc.) led by instructors and researchers in real-time.

**Interactive Enrichment Session 2**

- Opportunity to schedule and provide live real-time technical instructions to individual participants while they perform their experiment in their own institution.

**Technical Feedback Session**

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**Viral Injection & Fiber-Implant Surgery**

- Overview of materials and equipment for optogenetics surgical experiment.
- Step-by-step surgical procedure videos led by instructor in real-time.

**Interactive Enrichment Session 1**

- Presentations and discussions of viral expression strategies, spine engineering and new spin-in updates led by researchers in real-time.

**Project Feedback Session**

- Presentation and Q&A session of individual participants optogenetics project with live feedback from researchers and team leader.

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**Fiber Photometry Overview**

- Interactive discussions with researcher on hardware, software and integration with optogenetics.
- Step-by-step instructional videos of rig building, recording and troubleshooting scenarios led by instructors in real-time.

**Multi-fiber Photometry System**

- Presentations and discussions of using fiber photometry in research and integrating complementary technologies with fiber photometry (Optogenetics, Clarity, GCaMP, etc.) led by instructors and researchers in real-time.

**Interactive Enrichment Session**

- Opportunity to schedule and provide live real-time technical instructions to individual participants while they perform their experiment in their own institution.

**Technical Feedback Session**

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**Fiber-implant Surgery & Alternative Calcium Indicators**

- Overview of fiber photometry surgical experiments and single fiber recordings presented with step-by-step videos led by instructor in real-time.
- Presentation and discussion of strategies for 2-color fiber photometry recordings and new updates led by researcher in real-time.

**Data Analysis Session**

- Overview of data collection and analysis for fiber photometry, Python, MatLab and Github codes.
- Interactive Q&A sessions led by data scientist in real-time.

**Project Feedback Session**

- Presentation and Q&A session of individual participants fiber photometry project with live feedback from researchers and team leader.
Hydrogel-enabled Tissue Clearing Remote Workshop
6 days, 2-3 hours per day, with optional hands-on participation

STARmap Remote Workshop
5 days, 2-3 hours per day