



4T|Phys 2023 Training Conference Agenda

Agenda Subject to Change

Monday • July 17	Tuesday • July 18	Wednesday • July 19
Fundamentals Boot Camp <ul style="list-style-type: none"> • Introductory Theory to Data Acquisition, Amplification, Signal Processing & Quality, and Set Up • Biopotential and Common Transducer Signals: ECG, EMG, EDA, EEG, EOG, RESP, PPG, etc. • Live Dyadic Experiment: Optimize Lab, Set Up Subject & Equipment, Run Live Dyadic Game Experiment • Review Dyadic Experiment Data; Extract Measurements; Analyzing, Automating, and Exporting Results 	Fundamentals Boot Camp Repeat <ul style="list-style-type: none"> • Introductory Theory to Data Acquisition, Amplification, Signal Processing & Quality, and Set Up • Biopotential and Common Transducer Signals: ECG, EMG, EDA, EEG, EOG, RESP, PPG, etc. • Live Dyadic Experiment: Optimize Lab, Set Up Subject & Equipment, Run Live Dyadic Game Experiment • Review Dyadic Experiment Data; Extract Measurements; Analyzing, Automating, and Exporting Results 	Research Skills cont'd <ul style="list-style-type: none"> • AcqKnowledge Skills • AcqKnowledge Automation • Introduction to Scripting & NDT • Find Cycle Detector • fNIRS: Full Scalp • HRV Analysis: Time Series • HRV Analysis: Frequency-based • Recording in MRI Environment • MRI Lab Tour
Research Skills <ul style="list-style-type: none"> • EDA & Event-related EDA • Facial EMG for Affect & Startle • Getting Great EEG Data • Evoked Potentials: Exogenous and Stimulus • Impedance Cardiography Using TREV • fNIRS: Prefrontal Cortex • Stimulus Presentation • Stimulation Deep Dive • Blood Pressure: NIBP • Screen-based Eye Tracking • Eye Tracking Glasses • Exercise Physiology 	Research Skills Repeat <ul style="list-style-type: none"> • EDA & Event-related EDA • Facial EMG for Affect & Startle • Getting Great EEG Data • Evoked Potentials: Exogenous and Stimulus • Impedance Cardiography Using TREV • fNIRS: Prefrontal Cortex • Stimulus Presentation • Stimulation Deep Dive • Blood Pressure: NIBP • Screen-based Eye Tracking • Eye Tracking Glasses • Exercise Physiology 	Research Skills cont'd <ul style="list-style-type: none"> • Recording Mobile Participants • Synchronized Video • Real-world EDA Research Ring • Large Group Recording • SuperLab Stim Presentation • Cognixion: AR-powered BCI Applications • E-Prime Integration with Chronos®
Virtual Reality <ul style="list-style-type: none"> • VR in Research • How to Create a VR Experiment 	Virtual Reality <ul style="list-style-type: none"> • VR in Research • Using 360 Media as Stimuli in VR 	Virtual Reality <ul style="list-style-type: none"> • How to create a VR experiment • Using 360 Media as Stimuli in VR

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	Biopac Student Lab (BSL)	Biopac Student Lab (BSL)
<i>No BSL sessions on Monday</i>	<ul style="list-style-type: none"> • How to Get the Most Out of Your Lab: An Intro to BSL • Optimizing BSL: Modifying Basic Lessons & BSL <i>PRO</i> Intro & Advanced Customization • BSL <i>PRO</i> Part 1: Creating a Lesson with Social Support • BSL <i>PRO</i> Part 2: Creating an Experiment to Measure Sympathetic Drive (TREV) 	<ul style="list-style-type: none"> • How to Get the Most Out of Your Lab: An Intro to BSL • Optimizing BSL: Modifying Basic Lessons & BSL <i>PRO</i> Intro Customization • BSL <i>PRO</i> Part 1: Creating a Lesson with Social Support • BSL <i>PRO</i> Part 2: Creating an Experiment to Measure Sympathetic Drive (TREV)
Open Lab Time	Open Lab Time	Open Lab Time
45-minute appointments with BIOPAC and Sponsors	45-minute appointments with BIOPAC and Sponsors	45-minute appointments with BIOPAC and Sponsors
Evening Activities	Evening Activities	Evening Activities
Attendees Dinner on Their Own	Beach BBQ Hosted by BIOPAC Systems!	End of Conference

**Poster presentations are
welcome at
4T|Phys Human Physiology**

**Comments from past
4T|Phys attendees**

This is your opportunity to offer your experience,
expertise, and insights to researchers
in your field and related fields.
Poster presentations will be held during the morning
and afternoon breaks.
[Call for Posters \(PDF\)](#)
[Submit Your Poster Abstract](#)
Application deadline is June 15, 2023.

"I came away feeling inspired."
~
"I am much more confident with the equipment."
~
"UCSB is very beautiful and a perfect environment
for learning and reflection."
~
"Plenty of opportunities to interact with other
attendees, BIOPAC staff, and experts."
~
"It was an enjoyable experience and valuable to both
my teaching and research efforts at my institution."

We look forward to seeing you at 4T|Phys 2023! [REGISTER NOW](#)

