Yale / Wu Tsai Institute: fNIRS Workshop Program
November 8-9, 2024

Friday, Nov 8

8:30-9am — **Registration and complimentary continental breakfast**: 100 College Street, Room 1116

9 – 10:15 am — **Introduction**: Sara Sanchez-Alonso (Yale)

Keynote speaker: Susan Perlman, Washington University in St. Louis

The Use of fNIRS for Studying Social Interaction: What can Neural Synchrony Tell us About Relationships?

10:15 - 10:30 am — *Coffee Break*

10:30 – 12 pm — **Paper session**: Adam Noah (Yale), Moderator

The Neural Bases of Language Processing During Social and Non-Social Contexts: A fNIRS Study of Autistic and Neurotypical Preschool-Aged Children – Meredith Pecukonis (Boston University)

Neural Specificity for Live Dyadic Face Processing: Preliminary TMS and fNIRS findings – Joy Hirsch (Yale University)

The Role of Trust in Human-Computer Interactions Using fNIRS – Danushka Bandara (Fairfield University)

12 – 1:30 pm — **Lunch and Poster session**

Brain Activation Mapping from Concurrent fNIRS and fMRI Data during Hand Movement and Speech Therapy Tasks – Tess Meier (Worcester Polytechnic Institute), Poster #1

Assessing Robotic Assisted Surgical Skills with Optical Neuroimaging – Kehan Yang (Worcester Polytechnic Institute), Poster #2

First Episode Psychosis (FEP) Patients Show Increased Activity in Left Temporal-parietal Junction During Social Interaction – Adam Noah (Yale University), Poster #3

Spatial global component filter vs short channel regression for removing non-cortical component of fNIRS – Xian Zhang (Yale University), Poster #4

Classification of first-episode psychosis patients using brain activity and behavioral response during live face processing – Rahul Singh (Yale University), Poster #5

Neural Correlates of Eye Movements During Face Gaze for ASD and TD – Y-J Wang (Yale University), Poster #6

Use of high density fNIRS to evaluate brain function during interaction and walking in naturalistic environments – Shannon Kelley (Boston University), Poster #7

Mapping Language Network Areas Across Development via Simultaneous fMRI-fNIRS – Sara Sanchez-Alonso (Yale University), Poster #8

1:30 – 3 pm	**Panel Discussion**: Meryem Yücel (Boston University), Chair

Methodological Developments in Signal Processing

Panelists: Luca Pollonini (University of Houston), Roeland Hancock (Yale University) & Stefan Carp (Harvard University).

3 – 3:30 pm	*Coffee break*
3:30- 4:30 pm	**Paper session**: Sara Sanchez-Alonso (Yale), Moderator

Obstacle Avoidance in Healthy Adults and People with Multiple Sclerosis: Preliminary fNIRS Study – Fares Al-Shargie (Rutgers University)

Investigating Hemodynamic Patterns During Beat Processing in Cochlear Implant Users: Insights from a Finger Tapping Study – Samantha O'Connell (NIRx Medical Technologies)

Saturday, Nov 9

8:30-9am	**Complimentary continental breakfast**
9 – 10:15 am	**Introduction**: Richard Aslin (Yale)

Keynote speaker: Luca Pollonini, University of Houston

Accuracy, Repeatability and Reliability of Individual-level fNIRS: Challenges and Opportunities

10:15 - 10:30 am	*Coffee Break*
10:30 – 12 pm	**Panel Discussion**: Richard Aslin (Yale University), Chair

Combining fNIRS with other Multi-Modal Imaging Techniques.

Panelists: Joy Hirsch (Yale), Laurel Gabard-Durnam (Northeastern University) & Erin Solovey (Worcester Polytechnic Institute).

12 – 1:30 pm	**Lunch (on your own)**
1:30 – 3:30 pm	**fNIRS hands-on workshop:** Jeremy Burnison (NIRx Medical Technologies)
4 – 5 pm	**Yale Campus Tour** (please email sara.sanchez.alonso@yale.edu if you would like to join the tour)