



Wednesday, November 7

7:00pm Hackathon Happy Hour | *Sauf Haus Bier Hall & Garten*
Point of Contact: Jeff Stout

<https://saufhausdc.com/>
1216 18th St NW
Washington, DC 20036

Wednesday, November 8 | *Building 10*

8:00am Check-in, coffee and light refreshments | *FAES Terrace*

8:00am – 5:00pm MEG Hackathon | *FAES Terrace (morning), FAES Classroom 5 (afternoon)*

8:00am – 12:00pm Human Neocortical Neurosolver Course | *FAES Classroom 5*

10:00am – 12:00pm Working Group I: New Clinical Indications | *FAES Classroom 3 & 4*
Chair: Yuhan Chen

12:00pm – 1:00pm Lunch

1:00pm – 2:45pm Working Group II: Multimodal Imaging | *FAES Classroom 3 & 4*
Chair: Peter Molfese

2:45pm – 3:00pm Coffee and snacks

3:00pm – 5:00pm Industry Panel | *FAES Classroom 3 & 4*
Chair: Allison Nugent

5:30pm Dinner and Social Gathering | *Rock Bottom Brewery, Bethesda MD*
Point of Contact: Allison Nugent, **Advance Reservation Required*

<https://rockbottom.com/locations/bethesda>
7900 Norfolk Ave
Bethesda, MD 53203

Thursday, November 9 | *Building 35, Room 620 & 630*

- 8:00am – 8:30am Check-in, coffee and light refreshments | *Atrium*
- 8:30am – 9:00am Meeting introduction
- 9:00am – 10:00am **Keynote Lecture: Tal Kenet**
Functional connectivity abnormalities in autism spectrum disorder – Great expectations and Hard Times (and Great Expectations again?)
- 10:00am – 10:30am Coffee Break and Poster Session | *Atrium*
- 10:30am – 11:20pm **Symposium 1: Auditory processing and language**
Neural tracking Measures of speech Intelligibility: manipulating intelligibility while keeping acoustics unchanged | Dushyanthi Karunathilake
Left fusiform activity explains variability in fixation durations during natural reading: Evidence from co-registered MEG & eye-tracking | Graham Flick
Localizing covert and overt picture naming processes using MEG | Hsi T. Wei
Precision tagging of neural responses for tracking selective attention & learning mechanisms in the brain | Cassia Low Manting
- 11:20pm – 11:50pm **Symposium 2: Machine Learning**
Temporal signatures of multidimensional object properties in the human brain | Lina Teichmann
Neural Decoding of Individual Sequence Actions During Skill Learning | Debadatta Dash
Temporal dynamics of age, gender, and identity representations invariant to head views for familiar faces | Amita Giri
- 11:50pm – 12:30pm **Symposium 3: OPM MEG**
Multi-Frequency encoded source imaging for wearable OPM-MEG | Jing Xiang
Biplanar coil cancellation system for OPM-MEG using PCB | Mainak Jas
Towards precise mapping of digit representations in the human somatosensory cortex with high resolution magnetoencephalography | Amaia Benitez Andonegui
- 12:30pm – 1:30pm Lunch
- 1:30pm – 2:30pm **Keynote Lecture: Elizabeth Davenport**
The Impact of Head Impacts: MEG Findings in Concussion and Sub-Concussive Impacts
- 2:30pm – 3:30pm Coffee Break and Poster Session | *Atrium*
- 3:30pm – 4:30pm **Symposium 4: Big Data and Methods/Stats**
Age-Related trends in transient beta bursts: observations from big data | Lindsey Power
Fully hyperbolic neural Networks: A novel approach to discover aging trajectories from MEG brain networks | Hugo Ramirez
The ENIGMA MEG resting state analysis pipeline | Jeff Stout
Estimating the number of active sources in MEG based on an F-ratio method | Amita Giri

Reliable MEG/MSI source localization in patients with implanted vagus nerve stimulator (VNS) devices: a single-centered, large clinical observation study | Mahmoud Jiha

4:30pm – 5:00pm Meeting Close

**Highlighted titles in the Symposia indicate Outstanding Trainee Speaking Award recipients.*



The Foundation for Advanced Education in the Sciences (FAES) supports the 2023 MEG North America Workshop and provides year-round continuing education and training with online curricula in the evolving biomedical sciences. Fall topics include bioinformatics, genome editing with CRISPR, epigenetics, and program management. Information and registration at www.education.faes.org.