

## Multimodal Neuroimaging

**Monday March 4, 2013**

- 8:00–8:50 *Check-In/Light Breakfast (Hosted by IPAM)*
- 8:50–9:00 *Welcome and Opening Remarks*
- 9:00 *Session Chair: Mark Cohen*
- 9:00–9:50 **Klaus-Robert Müller** (Technische Universität Berlin)  
*Multimodal Imaging andBCI*
- 10:00–10:15 *Break*
- 10:15–11:05 **Jonathan Wolpaw** (SUNY Albany)  
*Adaptive Neurotechnologies at the Wadsworth Center*
- 11:15–11:30 *Break*
- 11:30–12:20 **Tom Mitchell** (Carnegie-Mellon University)  
*Neural Representations of Word Meanings, in Space and Time*
- 12:30–2:00 *Lunch (on your own)*
- 2:00 *Session Chair: Tülay Adalı*
- 2:00–2:50 **Pamela Douglas** (University of California, Los Angeles (UCLA))  
*Classification of Decision Making and Spatial Colocalization of EEG/fMRI Data*
- 3:00–3:50 **José del R. Millán** (École Polytechnique Fédérale de Lausanne (EPFL))  
*Design Principles for Neuroprosthetics*
- 4:00–4:30 *Break*
- 4:30–5:30 **Klaus-Robert Müller** (Technische Universität Berlin)  
*Public Lecture: Toward Brain Computer Interfacing by Klaus Robert Mueller*
- 5:45–7:15 *Reception (Location: IPAM Lobby)*

**Tuesday March 5, 2013**

- 8:00–9:00 *Continental Breakfast*
- 9:00 *Session Chair: Pedro Valdes-Sosa*
- 9:00–9:50 **Mark Cohen** (University of California, Los Angeles (UCLA))  
*Features and Interpretability*
- 10:00–10:15 *Break*

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- 10:15–11:05 **Ariana Anderson** (University of California, Los Angeles (UCLA))  
*Topic Modeling of Multimodal Data: functional MRI, Structural MRI, and Phenotypic Measures of ADHD*
- 11:15–11:30 *Break*
- 11:30–12:20 **Arno Villringer** (Max Planck Institute for Human Cognitive and Brain Science)  
*Cerebral Processing of Somatosensory Input*
- 12:30–2:30 *Lunch (on your own)*
- 2:30 *Session Chair: Pamela Douglas*
- 2:30–3:20 **Tülay Adali** (University of Maryland Baltimore County)  
*ICA and IVA: Theory, Connections, and Applications in Medical Image Analysis and Fusion*
- 3:30–4:00 *Break*
- 4:00–4:50 **Vince Calhoun** (University of New Mexico)  
*ICA and CCA-based methods for multimodal data fusion*

### Wednesday March 6, 2013

- 8:00–9:00 *Continental Breakfast*
- 9:00 *Session Chair: Klaus Müller*
- 9:00–9:50 **Bin He** (University of Minnesota, Twin Cities)  
*Functional neuroimaging of brain activity*
- 10:00–10:15 *Break*
- 10:15–11:05 **Rainer Dahlhaus** (University of Heidelberg)  
*Phase Synchronization and Cointegration: Bridging Two Theories*
- 11:15–11:30 *Break*
- 11:30–12:20 **Lars Kai Hansen** (Technical University of Denmark)  
*Mobile Real-Time EEG Imaging*
- 12:30–2:30 *Lunch (on your own)*
- 2:30 *Session Chair: Vince Calhoun*
- 2:30–3:20 **Paul Sajda** (Columbia University)  
*Using Simultaneous EEG/fMRI to Elucidate the Cortical Networks Underlying Rapid Decision Making and Perceptual Discrimination*
- 3:30–4:00 *Break*
- 4:00–4:50 **Benjamin Blankertz** (Technische Universität Berlin)  
*BCI Technology: Intentional Control and Monitoring of Cognitive States*

## Thursday March 7, 2013

- 8:00–9:00 *Continental Breakfast*
- 9:00 *Session Chair: Robin Goldman*
- 9:00–9:50 **Pedro Valdes-Sosa** (Cuban Neuroscience center)  
*Statistical methods for identifying brain networks from multimodal neuroimaging data*
- 10:00–10:15 *Break*
- 10:15–11:05 **Lucas Parra** (City University of New York (CUNY))  
*Electrode arrays for targeted brain stimulation and analysis (tDCS/EEG)*
- 11:15–11:30 *Break*
- 11:30–12:20 **Martin McKeown** (University of British Columbia)  
*Connectivity measures across multiple modalities in Parkinson's disease*
- 12:30–2:30 *Lunch (on your own)*
- 2:30 *Session Chair: Benjamin Blankertz*
- 2:30–3:20 **Shin Ishii** (Kyoto University)  
*Network-based BMI: toward brain machine interface in real environments*
- 3:30–4:00 *Break*
- 4:00–4:50 **Rainer Goebel** (Maastricht University)  
*Multimodal decoding and modification of brain activity - From basic research to clinical applications and back*

## Friday March 8, 2013

- 8:00–9:00 *Continental Breakfast*
- 9:00 *Session Chair: Rainer Dahlhaus*
- 9:00–9:50 **Todd Coleman** (University of California, San Diego (UCSD))  
*Optimal decision and transport theories for brain computer interfaces*
- 10:00–10:15 *Break*
- 10:15–11:05 **Anders Dale** (University of California, San Diego (UCSD))  
*Bayesian GWAS: Leveraging Functional Genomic Annotations and Pleiotropy Across Complex Traits and Diseases*
- 11:15–11:30 *Break*

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11:30–12:20 **Louis Lemieux** (University College London)  
*Mapping brain networks in patients with epilepsy using fMRI-EEG*

12:30–2:00 *Lunch (on your own)*

2:00–3:00 *Conference Wrap up*

