Explore the multimodal neuroimaging data and tools of the Human Connectome Project

2015 HCP Course: Exploring the Human Connectome
June 8-12, 2015
Marriott Resort Waikiki Beach
Honolulu, Hawaii, USA

This 5-day intensive course will provide training in acquisition, analysis, visualization and interpretation of data from four major MR modalities (structural MR, resting-state fMRI, diffusion imaging, task-evoked fMRI) plus magnetoencephalography (MEG) and extensive behavioral data.

Participants will learn how to use methods and informatics tools developed by the WU-Minn HCP consortium, plus data made freely available to the neuroscience community.

Lectures and labs will provide grounding in neurobiological as well as methodological issues involved in interpreting multimodal data, and will span the range from single-voxel/vertex to brain network analysis approaches.

Registration
$800 for PhD/MSc students
$1300 for postdocs and faculty
$2300 for commercial attendees

Registration fees cover lectures, computer practical sessions, coffee/tea breaks, an evening reception on Monday June 8, and a flash drive containing lecture slides. The registration fee does not cover travel, accommodation or meals.

Topics
Day 1: Structural imaging; preprocessing; intersubject registration; parcellation
Day 2: Resting-state fMRI; network analysis
Day 3: Diffusion imaging and tractography
Day 4: Task-fMRI; data mining; disease connectomics
Day 5: Magnetoencephalography; multimodal integration

Teaching Faculty and Tutors
David Van Essen, Steve Smith, Tom Nichols, Jesper Andersson, Dan Marcus, Matt Glasser, Michael Harms, Greg Burgess, Linda Larson-Prior, Alan Anticevic, Gordon Xu, Robert Oostenveld, Jan-Mathijs Schoffelen, Matteo Bastiani, Jenn Elam, Giorgos Michalareas, Francesco Di Pompeo, Tim Brown, Tim Coalson, Donna Dierker, Matt Kelsey

For full schedule and to register, visit:
https://humanconnectome.org/course-registration/

The HCP course is designed for those interested in:
• using data collected and distributed by HCP
• acquiring and analyzing HCP-style imaging and behavioral data at your own institution
• processing your own non-HCP data using HCP pipelines and methods
• learning to use Connectome Workbench tools and the CIFTI connectivity data format
• learning HCP multimodal neuroimaging analysis methods, including those that combine MEG and MRI data
• positioning yourself to capitalize on HCP-style data from forthcoming large-scale projects (e.g., Lifespan HCP and Connectomes Related to Human Disease)