### Program Schedule  October 19-23, 2020

**Monday (General Introduction to All of fMRI; Tour and Sample Data)**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Speaker(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:00 - 9:45</td>
<td>- A, B - Overview of the Program and fMRI-Based Experiments</td>
<td>Robert Savoy</td>
</tr>
<tr>
<td>10:00 - 11:15</td>
<td>- C1 - Basics of NMR and MRI; Sources of Signal and Contrast</td>
<td>Robert Savoy</td>
</tr>
<tr>
<td>11:30 - 12:30</td>
<td>- C2 - Image Contrast and Tradeoffs in fMRI; Safety, HRC/IRB Considerations</td>
<td>Robert Savoy</td>
</tr>
<tr>
<td>12:30 - 1:30</td>
<td>- Lunch</td>
<td>Robert Savoy</td>
</tr>
<tr>
<td>1:30 - 2:00</td>
<td>- Participant Introductions; Begin Design Workshop and Selection of Groups</td>
<td>Participants</td>
</tr>
<tr>
<td>2:00 - 3:15</td>
<td>- D - Data Analysis Part 1: Block Design; t-Tests; Ideas for Data Reduction and the GLM</td>
<td>Robert Savoy</td>
</tr>
<tr>
<td>3:30 - 4:00</td>
<td>- E - Data Analysis Part 1 (continued): Systematic Overview</td>
<td>Robert Savoy</td>
</tr>
<tr>
<td>4:00 -</td>
<td>- Discuss Video Tour; Informal Discussion of the Day’s lectures</td>
<td>Robert Savoy &amp; Participants</td>
</tr>
</tbody>
</table>

**Tuesday**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Speaker(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:00 - 10:00</td>
<td>- H - Experimental Task Design in Functional Neuroimaging <em>(with a short break)</em></td>
<td>Robert Savoy</td>
</tr>
<tr>
<td>10:30 - 11:15</td>
<td>- I - Data Analysis Part 2: Preprocessing</td>
<td>Robert Savoy</td>
</tr>
<tr>
<td>11:30 - 12:30</td>
<td>- N - Data Analysis Part 3: First Level Estimation</td>
<td>Robert Savoy</td>
</tr>
<tr>
<td>12:30 - 1:30</td>
<td>- Lunch</td>
<td>Robert Savoy</td>
</tr>
<tr>
<td>1:30 - 2:30</td>
<td>- O - Overview and Combining Software Packages</td>
<td>Robert Savoy</td>
</tr>
<tr>
<td>2:45 - 3:15</td>
<td>- K, L - Advances in Single Trial Design; Visualizing the FIR Model of Analysis</td>
<td>Robert Savoy</td>
</tr>
<tr>
<td>3:30 - 4:30</td>
<td>- P - Computational Neuroanatomy <em>(This and/or next lecture may be moved to Wednesday)</em></td>
<td>Anastasia Yendiki</td>
</tr>
<tr>
<td>3:30 - 4:30</td>
<td>- J - fMRIPrep: A Robust Preprocessing Pipeline for fMRI Data <em>(see above)</em></td>
<td>Christopher Markiewicz**</td>
</tr>
<tr>
<td>4:30 -</td>
<td>- Informal Discussion of the Day’s lectures</td>
<td>Robert Savoy &amp; Participants</td>
</tr>
</tbody>
</table>

**Wednesday**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Speaker(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:00 - 10:00</td>
<td>- M - Resting State fMRI Connectivity and Multivariate Analysis</td>
<td>Robert Savoy</td>
</tr>
<tr>
<td>10:15 - 11:15</td>
<td>- O - Data Analysis Part 4: Second Level Estimation</td>
<td>Doug Greve</td>
</tr>
<tr>
<td>11:30 - 12:30</td>
<td>- R - DSI / DTI / Tractography: Getting at White Matter Tracts with MRI</td>
<td>Anastasia Yendiki</td>
</tr>
<tr>
<td>12:30 - 1:30</td>
<td>- Lunch</td>
<td>Robert Savoy</td>
</tr>
<tr>
<td>1:30 - 2:15</td>
<td>- S - Reproducibility of fMRI Experiments; Use of Large Data Bases</td>
<td>Robert Savoy or David Kennedy</td>
</tr>
<tr>
<td>2:30 - 3:30</td>
<td>- U - BIDS: Brain Imaging Data Structure; Quality Assurance Issues</td>
<td>Christopher Markiewicz**</td>
</tr>
<tr>
<td>3:45 - 4:45</td>
<td>- G - Optimizing Data Acquisition; Advanced Techniques in Data Acquisition</td>
<td>Blaise Frederick</td>
</tr>
<tr>
<td>4:45 -</td>
<td>- Informal Discussion of the Day’s lectures</td>
<td>Robert Savoy &amp; Participants</td>
</tr>
</tbody>
</table>

**Thursday**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Speaker(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:00 - 9:45</td>
<td>- C - Review of Basic MRI <em>(Optional, for those interested)</em> (Savoy ( basics review))</td>
<td>Savoy (basics review)</td>
</tr>
<tr>
<td>9:00 - 10:45</td>
<td>- C - Topics in Advanced MRI <em>(e.g., Phase Encoding; Arterial Spin Labeling; other by request)</em></td>
<td>Jon Polimeni</td>
</tr>
<tr>
<td>11:00 - 12:00</td>
<td>- T - Data Analysis Part 5: Inference &amp; Critical Thresholds; Review; Q&amp;A</td>
<td>Doug Greve</td>
</tr>
<tr>
<td>12:00 - 1:00</td>
<td>- Lunch</td>
<td>Robert Savoy</td>
</tr>
<tr>
<td>1:00 - 3:00</td>
<td>- V - Seed-Based fMRI Functional Connectivity <em>(Informal Discussion)</em></td>
<td>Susan Whitfield-Gabrieli</td>
</tr>
<tr>
<td>3:00 - 3:45</td>
<td>- X - Scanning Children and Adolescents <em>(Informal Discussion)</em></td>
<td>Constanza M. Vidal Bustamante</td>
</tr>
<tr>
<td>4:45 -</td>
<td>- Informal Discussion of the Day’s lectures</td>
<td>Robert Savoy &amp; Participants</td>
</tr>
</tbody>
</table>

**Friday**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Speaker(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>9:00 - 9:45</td>
<td>- W - Experimental Task Design in the Age of Connectivity</td>
<td>Robert Savoy</td>
</tr>
<tr>
<td>9:00 - 9:45</td>
<td>- or Introduction to Clinical Imaging</td>
<td>Robert Savoy</td>
</tr>
<tr>
<td>9:00 - 9:45</td>
<td>- or Guest Lecture by Popular Demand <em>(if possible)</em></td>
<td>To be determined</td>
</tr>
<tr>
<td>10:00 - 10:30</td>
<td>- Y - Command Line Analysis of an Experiment with FreeSurfer/FSFAST</td>
<td>Andrew Hoopes</td>
</tr>
<tr>
<td>10:30 - 11:00</td>
<td>- X - Spinal Cord Imaging</td>
<td>Robert Barry</td>
</tr>
<tr>
<td>10:30 - 11:00</td>
<td>- X - High Resolution fMRI at 7T</td>
<td>Jon Polimeni</td>
</tr>
<tr>
<td>11:15 - 1:15</td>
<td>- Class Presentations: Future Experiments</td>
<td>The Program Participants!</td>
</tr>
<tr>
<td>1:15 - 4:30</td>
<td>- This time is left for handling anything that came up during the week left unresolved</td>
<td>Robert Savoy</td>
</tr>
</tbody>
</table>

*Staff: Experimental Design Experts: Robert Barry; Julia Felicione; Blaise Frederick; Robert Savoy
**The two lectures by Christopher Markiewicz are tentative