1st LLAP-PAG Workshop

LIBRARY LEARNING ANALYTICS PROJECT (LLAP)

May 30-31, 2019, Gallery Room, Hatcher Graduate Library, University of Michigan

**WORKSHOP AGENDA**

**Thursday, May 30th**

1. Late Afternoon:
   1. Assemble at the Institute for Social Research [4:00-4:15]
   2. Tour of the Hatcher Graduate & Shapiro Undergraduate libraries [4:30-5:15]
2. Evening:
   1. Reception/Dinner [5:30-7:00]

**Friday, May 31st**

1. Morning:
   1. Welcome & Introductions [8:00-8:30]
   2. Keynote [8:30-9:00]
      1. Stephanie Teasley, outgoing president of the Society for Learning Analytics Research (SOLAR)
   3. Module 1: Data Manipulation & Management [9:00-10:15]
      1. Main SQL commands: select, joins, filters, groups – demonstrate a few flavors of SQL including using it within R and Python
      2. Data processing
   4. Break [10:15-10:30]
   5. Module 2: Data Exploration & Visualization [10:30-12:00]
      1. Exploring and summarizing data
      2. Introduction to and demonstration of some popular visualization packages
         1. ggplot, plotly, and more
2. Afternoon:
   1. Lunch [12:00-1:00]
   2. Module 3: Introductory Analytics [1:00-2:15]
      1. Regression and classification
         1. Interpretation and assessing performance
         2. Additional standard methods
         3. Tips and tricks
   3. *Demonstration: How does it all come together?* [2:15-2:45]
      1. Michael Clark
   4. Break [2:45-3:00]
   5. Module 4: More Analytics [3:00-4:15]
      1. Extensions to standard models
      2. Machine learning
      3. Network analysis
3. Debrief [4:15-4:30]