**Detailed Agenda for Zoom Meeting 2/26/2020**

Review of Objectives and Progress:

* Goals from last meeting:
  + Complete Responsible Conflict of Interest training
  + Replication of Weighted Network Structure & derivation of likelihood function specific to PHQ-9
  + Pursue sufficiency or possibly bounded-monotone convergence proof of accuracy comparison
* Goals accomplished from last meeting:
  + One-on-one review with Dr. Santorico
  + Post-meeting summary discussion with consultation class

Questions Regarding

* Data and Sampling
  + Would you be willing to provide a data-dictionary, or review variables of interest with me?
  + Any other data to incorporate? *Speak now or forever hold your peace!*
  + How was testing order assigned? What possible orders were assigned?
  + Would confining results to only those subjects that took both questionnaires be inadviseable? Why?
* Modeling Approach
  + We have come to the conclusion that you are using the QDP as evidence-based measure (what we would call “supervision data”) to idealize the outcome of the PHQ-9. In other words, the QDP is a representation of an outcome (more closely related to) truth. Does that sounds about right?
  + Do you then use Bayes’ theorem to calculate weights and Latent Trait information captured by the QDP that is missed in the PHQ-9?
* Scope and Breadth of Desired Results
  + After presenting to the class, and to Dr. Santorico, we have collectively come to the conclusion that limiting our objectives to a comparison of Probabilistic Scoring vs Standard Linear Scoring on existing data (on QDP~PHQ-9 pairings) will most likely take between 6-8 weeks, and will in a likelihood consume the class time that I have as your consultant.
    - This would include:
      * Empirical comparison of accuracy metrics (comparison of accuracy numerically)
      * Sample-specific likelihood calculation of accuracy comparison (theoretical comparison specific to data provided)
      * Generalizations as time is allowed, and requested formatted results
    - Most likely not to include:
      * Generalizations to testing procedures without support data
      * Integrated latent trait risk score estimates for multiple questionnaire response measurements
* Results and Formatting
  + We are going to present you with a client report at the end of this semester. It should include the process, results, and possible further work that I/we discovered throughout the class.
  + Do you have a request for:
    - References & citations
    - Access to code or data repositories
    - Specific formatting requirements
      * IEEE/MAA/AMA?
    - Other topics?

Upcoming Week Goals:

* Make progress on goals from last meeting
  + Replication of Weighted Network Structure & derivation of likelihood function specific to PHQ-9
  + Pursue sufficiency or possibly bounded-monotone convergence proof of accuracy comparison