

Applied Analytics and Data Infrastructure Catalyst Program

Available Services

Contact us to discuss services that may not appear on this list.

Applied Analytics

1. Analysis

- Performing descriptive and inferential analyses
 - *Analytic methods may include but are not limited to: general/generalized linear modeling, mixed modeling (i.e., multilevel or hierarchical linear modeling), latent variable modeling (e.g., structural equation modeling, item response theory, and factor analysis), and mediation and moderation analysis.*
- Using complex survey analysis methods to analyze data from large-scale national and international survey studies (e.g., ECLS, NAEP, PISA)
- Conducting qualitative data analysis
- Guiding the integration procedures for mixed methods studies

2. Measurement Services

- Evaluating existing psychometric data to appraise the degree of reliability and validity evidence for existing measure(s)
- Psychometric Analyses (e.g., factor analysis, reliability analysis) for a measure
- Supporting best practices for measure development in areas such as item writing, general design, and administration
- Developing appropriate qualitative data collection protocols for the study design

3. Dissemination

- Creating appropriate visual data displays
- Collaborating on the preparation of manuscripts

Data Infrastructure

1. Database Development

- Creating Qualtrics surveys for online data collection
- Building customized data systems for individual projects, including survey and data entry portals, and custom data reports for analytic use
- Integration of various software (e.g., Qualtrics) into customized project websites
- Ensure methods for secure data transfer from field-based research sites

2. Data Management

- Data cleaning (e.g., flagging errant data patterns, naming variables, merging datasets), creating composite variables (scoring measures)
- Best practices data/statistical software (e.g., SPSS, SAS, Mplus, R) training for GRAs and project staff

3. **Data Curation Consultation**

Data curation is the ongoing processing and maintenance of data throughout its lifecycle to ensure long term accessibility, sharing, and preservation. Individual Consultations are scheduled as a series of 1-hour virtual meetings and thus intended for feedback giving and resource sharing related to research methods, applied analytics, data infrastructure, preparing data for depositing to a repository (e.g., NIH National Data Archive), or advice on registering a study (e.g., clinicaltrials.gov, REES). You will have a chance to share any relevant documents in advance. You will meet with our team ranging from one to three staff/GRA consultants, or the team plus a MAP Academy Faculty Member. At the end of the consultation, we provide you with a summary of the consultation and a list of resources specific to your research of focus. Please note: data curation consultations do not include proposal development.

Services are provided on an hourly basis. Service center rates are determined annually by UNL.

Current rates:

- **Research Faculty/Staff:** \$82/hour
- **Graduate Research Assistants:** \$45/hour