Radical Collaborations - Data Science Task Force
Charge to Task Force

1. What organization ... connects faculty working across the spectrum of discovery through application in data science, enhances the potential for external funding, and provides an effective platform for educational efforts? Should we have a Graduate Field of Data Science? Should there be a Data Science Institute? If so, how should it be funded? Should we consider changes in our current department structure?

2. Cornell has a number of units that already engage with and support data science across the university ... do we have the right organizational structure and capabilities to achieve the goals set forth above? Are support systems appropriate for the research communities seeking to access data analysis?

3. How can we advance data science educational programs at the undergraduate, masters, and Ph.D. levels in the most effective way?

4. Should Cornell focus on building specific areas of data science in which we can most easily achieve a competitive advantage relative to our peers due to existing strengths at the university? If so, which areas are most promising?

5. Are there ways to organize our recruitment efforts so as to enhance the interactions and collaborations of faculty that are recruited to Cornell in the discovery and application domains?
Data Science - Recent Relevant Changes on Campus

- Department of Statistical Science -> Department of Statistics and Data Science
- Creation of Department of Computational Biology
- Data Science Curriculum Initiative in A&S
- CALS Statistics and Data Science Curricula Task Force
- A New Cross-Unit Focal Point for Data Science

Center for Data Science for Enterprise & Society
Center for Data Science for Enterprise & Society

Intellectual Scope

• Data generated by human activity, with emphasis on connection to computational social sciences, as well as the economics/computer science interface

• Digital infrastructure for production & management in settings ranging of agriculture (e.g., food supply chain) to urban transport (e.g., sharing economy)

• Cross-cutting issues of privacy, security, & fairness

• Enhance other program areas in entrepreneurial & opportunistic fashion
Center for Data Science for Enterprise & Society

- Coordinate multi-unit mid-career faculty searches (with seed funding) (primarily CIS, Econ, Math, ORIE, ECE)
- Home for nine Research Assistant Professors (three 3-year non-tenture-track positions/year)
- Organize 3 1-week “boot camps”/year to focus emerging interdisciplinary research initiatives
- Coordinate cross-unit sponsored research and corporate outreach in data science (e.g., TRIPODS phase 2 and r4)
- Coordinating/facilitating role in data science education, e.g., establishing a PhD minor in data science
Center for Data Science for Enterprise & Society

Organizational Structure –

Executive Committee oversees full range of centers activities working with Advisory Council

Francesca Molinari (Econ), Thorsten Joachims (CS/IS), and David Matteson (Stat & Data Science)

Broader committee to select and recruit for Research Assistant Professor positions
Questions?