BMI 7840: Advanced Topics in Biomedical Data Management
Course Instructor: Ümit V. Çatalyürek, PhD

About this course: This course is an in-depth review of the latest developments in the areas of biomedical data management technologies, tools, and middlewares that support translational studies. The goal of this course is to provide an in-depth look at the expertise in the design, implementation, and management of systems used to collect, exchange, store, query, and analyze large-scale, heterogeneous biomedical data sets in order to support translational studies. Upon completion of this course, students will be able to:

- Critically review literature on data management infrastructures
- Evaluate and analyze existing translational informatics infrastructures
- Design and develop new informatics infrastructure or infrastructure components to support new use cases in translational research
- Synthesize information from a variety of sources into a cohesive presentation

Many Sources of Data!

Emergent Sources
PHR, Instruments, Etc.

Molecular Phenotype

Environment

Enterprise Systems and Data Repositories:
EHR, CTMS, Data Warehouses

Please note: Although it is not required, a background or experience with computer science, bioinformatics, imaging informatics, or clinical informatics is strongly recommended.

Time: Wednesday/Friday 2:20 – 3:40 PM
Location: 3167 Graves Hall

If you have any difficulties with enrolling in the course, please contact us at: BMI.education@osumc.edu / (614) 292-4778