

LIBR 595: Data Management at the Bench

Lecture: Tues. 2:30-3:20 p.m., CRN 20494

Lab: Thurs. 1:30-3:20 p.m., CRN 20493

2 Credit Hours

This course welcomes students from all STEM disciplines to become familiarized with major issues in quantitative data management, such as data set organization; data versioning, backup, and archiving; computer file and directory organization; data quality control, exploration, visualization, and analysis; and data sharing, publication, copyright, and ownership. A wide range of public databases will serve as examples of data organization, sources of reusable research data, and possible platforms for data publication. Students will learn to apply critical thinking to develop practical strategies to manage their own research data. A strong emphasis will be placed on active learning with theoretical lectures and discussions reinforced by applied lab sessions using such tools as Excel, R, Unix, Git, and parallel computing.

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Contact

Professor Megan Sapp-Nelson
mrsapp@purdue.edu

OR

Assistant Professor Pete Pacuzzi
ppascuzz@purdue.edu