Data and Models: Regressive Analytics
July 8-12, 2019

Note: Topic order is subject to change

Monday
9:00-10:30: Philosophy of Data and Models
10:30-11:30: Least Squares
11:30-Noon: Levenberg-Marquardt & Ridge Regression
Noon-1:00: Lunch
1:00-5:00: Lab Exercises

Tuesday
9:00-10:00: Damped Least Squares Comparison
10:00-11:30: Least Squares with Constraints
11:30-Noon: Stochastic Inverse
Noon-1:00: Lunch
1:00-5:00: Lab Exercises

Wednesday
9:00-10:30: Singular Value Decomposition
10:30-Noon: Random and Grid Search Methods
Noon-1:00: Lunch
1:00-5:00: Lab Exercises

Thursday
9:00-10:00: Simulated Annealing and Genetic Algorithms
10:00-Noon: Neural Networks
Noon-1:00: Lunch
1:00-5:00: Lab Exercises

Friday
9:00-10:00: Experimental Design
10:00-11:00: Parameter Error Estimates
11:00-Noon: Large Inverse Problems
Noon-1:00: Lunch
1:00-5:00: Lab Exercises