Contribution ID: **7**   Type: **Overview lecture**

Modeling Data: Fitting, Inference, and Machine Learning

Thursday 20 March 2025 10:00 (1h 15m)

This lecture will cover the relationship between "models" and "data", such that "learning" corresponds to making inferences about the parameters of our model. We will see that this paradigm covers everything from curve fitting to contemporary machine learning with neural networks. The theory of general model fitting will be explored with practical examples, with some discussion of the concepts of "goodness-of-fit" and model selection.

Author: ROGAN, Christopher (The University of Kansas (US))

Presenter: ROGAN, Christopher (The University of Kansas (US))

Session Classification: Overview lecture