

**Speaker:** James Nightingale

**Title:** Probabilistic Programming 1: Fitting a Model to Data

**Summary:**

In this lecture, you will learn how to compose a probabilistic model and perform inference on data by defining a likelihood function, which is sampled using a non-linear search algorithm.

Lecture materials can be found using the link below (which run in a web browser without any user setup required):

[https://mybinder.org/v2/gh/Jammy2211/Probabilistic\\_Programming\\_CDT/main?filepath=lecture\\_1.ipynb](https://mybinder.org/v2/gh/Jammy2211/Probabilistic_Programming_CDT/main?filepath=lecture_1.ipynb)

This uses the probabilistic programming language PyAutoFit (<https://github.com/rhayes777/PyAutoFit>).