Speaker: James Nightingale

Title: Probabilistic Programming 2: Application To Astronomy

Summery:

This lecture uses strong gravitational lensing to demonstrate how adopting a probabilistic programming language can benefit scientific research and shows advanced modeling techniques such as hierarchical models and chained non-linear searches.

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

https://mybinder.org/v2/gh/Jammy2211/Probabilistic_Programming_CDT/main?filepath=lecture_2_part_1.ipynb

https://mybinder.org/v2/gh/Jammy2211/Probabilistic_Programming_CDT/main?filepath=lecture_2_part_2.ipynb

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