

DRAFT - TIMETABLE AND WORKSHOPS ARE SUBJECT TO CHANGE

STFC Data Intensive, Artificial Intelligence and Machine Learning Summer School at Sussex university

ATTENDEES CHOOSE 1 x 4.5 hr WORKSHOP PER DAY

| | MONDAY 22/07 | TUESDAY 23/07 | WEDNESDAY 24/07 Industry & Career Skills Day | THURSDAY 25/07 | FRIDAY 26/07 |
|--|--|---|---|---|---|
| WORKSHOPS: 9:30 - 15:30 Choose 1 per day | <p>Optimising signal / background ratio in the search for the Higgs Boson using statistical</p> <p>GPU Programming with CUDA</p> <p>Intro to Machine Learning</p> <p>Advanced Git / GitHub</p> <p>Big Data Tools</p> | <p>Natural Language Programming</p> <p>Probabilistic Programming</p> <p>SQL</p> <p>Advanced Statistics</p> <p>Deep Learning & Convolutional Neural Networking</p> | <p>Entrepreneurship talks series by Conception X</p> <p>Turning Science into Business</p> <p>How to Win a Fellowship</p> <p>Software Engineering for Data Science</p> | <p>Bayesian Hierarchical Modelling</p> <p>GPUs & Deep Learning</p> <p>Specific Supervised Classification tools</p> <p>Time Series (Traditional) Data Analysis</p> <p>Apache Spark for Astronomy</p> <p>Advanced Numpy</p> | <p>Kaggle Competition working in teams of 5</p> |
| PLENARY 16:00 - 17:30 | <p>Careers Panel - hear from 8 panellists who have moved from academia to industry roles in data science</p> | <p>Crisantha Fernando - Machine Learning</p> <p>Sean Burton - Communicating Data Science</p> | <p>Free time before Conference Dinner</p> | <p>Sophie Vallecorsa - use of Machine Learning techniques in HEP</p> <p>Catriona Jackman - Astronomy</p> | <p>To be confirmed</p> |