

## Introduction to the course

- Video:** Welcome to Probabilistic Deep Learning with TensorFlow 2  
2 min
- Reading:** About Imperial College & the team  
10 min
- Reading:** How to be successful in this course  
10 min
- Reading:** Grading policy  
10 min
- Reading:** Additional readings & helpful references  
10 min
- Discussion Prompt:** Introduce yourself  
10 min
- Pre-Course Survey**  
15 min
- Video:** Interview with Paige Bailey  
7 min
- Video:** The TensorFlow Probability library  
2 min
- Practice Quiz:** [Knowledge check] Standard distributions  
6 questions

## Univariate distributions

## Multivariate distributions

## The Independent distribution

## Broadcasting rules

## Sampling and log probs

## Tractable distributions

## Programming Assignment:

## Naive Bayes and logistic regression



# About Imperial College & the team

## Welcome to Imperial College!

By signing up for this course you will join our community of problem-solvers dedicated to finding innovative solutions to the world's biggest challenges!

Imperial College London is a global top ten university, with talented and driven academics, staff and students forming a diverse community from over 125 countries. Together they carry out cutting edge and influential research, deliver a high quality education with over 6000 degrees awarded each year, and make an important contribution to the wellbeing of global humanity.

If you would like to get more information about Imperial College or to pursue studying at Imperial College, then please check out:

- [About Imperial College London](#)
- [Studying at Imperial College London](#)
- [Join the conversation!](#)

## Meet the team

This course was created by an enthusiastic team of academics and professionals from Imperial College London.

### The instructors of this course

Kevin Webster is a Senior Teaching Fellow in the Department of Mathematics at Imperial College London. He obtained his PhD from Imperial College in 2003 in the field of dynamical systems. His research interests include adapting machine learning methods to numerical approximation problems in dynamical systems, and the application of machine learning and deep learning models to music, including music generation and music listening. He developed the core AI for the commercial music audio search engine Figaro. Follow Kevin on Twitter: [@kn\\_webster](#)

### Teaching staff