



## *USC and MathWorks invite you to join our Deep Learning Workshop*

### **Practical Applications of Deep Learning – a Hands-on MATLAB Workshop**

Deep learning achieves human-like accuracy for many tasks considered algorithmically unsolvable with traditional machine learning. It is frequently used to develop applications such as face recognition, automated driving, and image classification.

In this hands-on workshop, you will write code and use MATLAB to:

- Learn the fundamentals of deep learning and understand terms like “layers”, “networks”, and “loss”
- Build a deep network that can classify your own handwritten digits
- Access and explore various pretrained models
- Use transfer learning to build a network that classifies different types of food
- Use LSTM Networks for time series forecasting.
- Train deep learning networks on GPUs in the cloud
- Learn how to use code generation technology to accelerate inference performance
- Learn how to improve the accuracy of deep networks

Location: Zumberge Hall 352

Date: Friday, March 15<sup>th</sup>, 2019

Time: 1:00 -4:00 pm

Register Here: [www.mathworks.com/usc](http://www.mathworks.com/usc)

#### **Before the event:**

Please create a free [MathWorks.com account](https://www.mathworks.com), and associate yourself with the [USC MATLAB Campus Wide License](#)

Please bring a laptop/tablet with a modern web-browser and WiFi connectivity ([System Requirements](#))

Please download and install MATLAB R2019a on your device before the event – or ensure access to [MATLAB Online](#)