

# Deep Learning for Computer Vision

Lecture 0: Introduction to the Course

Peter Belhumeur  
Fall 2023

Computer Science  
Columbia University

- 1. IF YOU ALREADY KNOW THE MATERIAL, TAKE ANOTHER MORE ADVANCED COURSE.**
- 2. IF YOU WANT TO ONLY WORK WITH THE LATEST MODELS FROM THE LITERATURE AND DON'T WANT TO START AT THE BEGINNING, TAKE ANOTHER MORE ADVANCED COURSE.**
- 3. LOOK AT THE ASSIGNMENTS NOW. SEE IF THEY ARE WHAT YOU ARE INTERESTED IN LEARNING, AND IF NOT TAKE ANOTHER COURSE.**

Prof. Peter Belhumeur  
Computer Science

623 CEPSR

[belhumeur@cs.columbia.edu](mailto:belhumeur@cs.columbia.edu)

Office Hours: Tuesday 11:00am-12:00pm

Course Website: [deeplearningforcomputervision.com](https://deeplearningforcomputervision.com)

Course Slack: [deeplearningf-tk52793.slack.com](https://deeplearningf-tk52793.slack.com)

Course Programming Language: Python

Course Coding Environment: Jupyter Notebooks

## Course Grading:

**Assignments = 60% + Final Project Proposal = 5% + Final Project = 35%**



# 2014

Deep Learning Demos: Handwriting Generation

<http://www.cs.toronto.edu/~graves/handwriting.html>

# 2021



<https://www.nytimes.com/2022/09/02/technology/ai-artificial-intelligence-artists.html>

# 1998

Deep Learning Demos: Digit Recognition

<http://cs.stanford.edu/people/karpathy/convnetjs/demo/mnist.html>

# 2021

Deep Learning Demos: Image Classification

<https://huggingface.co/tasks/image-classification>

# 2024

Deep Learning Demos: Large Language Models

<https://chat.openai.com/>