

# DS4023 Machine Learning

## Lecture 0: Course Introduction

Mathematical Sciences  
United International College

# Contact Information

- Instructor

Dr. Nicolas Langrené (1003/1004)

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- Teaching Assistant

Mr. Guang Yang

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- Office: TBD

# Course Website

- iSpace:
  - [Machine Learning \[Semester 2 of 2022-2023\]](#)
  - Download lecture and lab slides
  - Check assignment information
  - Upload class exercises and assignments
  - Post your comments/questions on the forum

# Grading

- Assignments & Quizzes (30%)
- Project (30%)
- Final Examination (40%)

## Note:

- The final examination is very important and needs to reach at least a certain threshold mark in order to pass the course.
- Otherwise, the student will receive an F grade, irrespective of the marks for the other assessment components.

# Reference

- Reference
  - Pattern Recognition and Machine Learning, Christopher M. Bishop. 2006. (Information Science and Statistics). Springer-Verlag, Berlin, Heidelberg.
  - Jeremy Watt, Reza Borhani, and Aggelos K. Katsaggelos. 2016. Machine Learning Refined: Foundations, Algorithms, and Applications (1st. ed.). Cambridge University Press, USA.
  - 周志华，机器学习，清华大学出版社，2016

# Policies

- Submit exercises/assignments on time
  - Can submit assignments within 3 days after the deadline and get 10% off penalty each day. After 3 days, no submission will be accepted without a documented, legitimate reason.
- Academic honesty
  - Copying from others, or allowing others to copy from you, is considered academic plagiarism
  - Assignments: both get 0
  - Final: an automatic FAIL

# Topics

Topic	Schedule
Introduction	Week 1
Linear Regression	Week 2-3
Logistic Regression	Week 4-5
Neural Network	Week 6-8
Support Vector Machine	Week 9-10
Mixture Model and EM	Week 11
Ensemble Learning	Week 12
Advanced Topics	Week 13