**Syllabus**

CSCI 381/780, Spring 2015

Special Topics: Machine Learning in Image Analysis

# ***Instructor***

Chao Chen (SB A118, chao.chen@qc.cuny.edu)

# ***Time and location***

Tue/Thu 1:40pm – 2:55pm, SB D135

# ***Office hours***

Tue 3pm – 4pm, Thu 5 – 6pm, or by appointment

# ***Prerequisites***

CSCI 313 (Data Structures), MATH 231 (Linear Algebra I)

# ***Textbook***

Pattern Recognition and Machine Learning (Springer)

By Christopher M. Bishop

# ***Topics***

Machine learning: clustering, regression, classification, evaluation, etc.

Computer vision: feature extraction, segmentation, recognition, etc.

Special topics: structured learning, deep learning, etc.

# ***Grading***

One big project (in groups):

 Proposal (short presentation + report) (20%)

 Mid-term evaluation (presentation + report) (30%)

 Final evaluation (presentation + report) (50%)

Graduate students can use their research projects instead, only if approved by the instructor and the research advisors.

Late submission of reports or missed presentations will be penalized.

# ***Policy***

Absentees are solely responsible for catching-up. Academic dishonesty, such as plagiarism or cheating - taking other people's work with or without their permission in order to get credit for yourself, will be dealt with seriously, including an "F" grade for the course and/or disciplinary action according to the University's policy on academic integrity.