

CV201, HW #1

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Version Log

- 1.01, 5/11/2019. Typo fix.
- 1.00, 23/10/2019. Initial release.

Few Words Before You Start

Usually, the HW assignments in this class will involve both computer problems (coding in Python) and theoretical/computational problems. The first HW assignment, however, is atypical in that it does not contain computer problems.

The purpose of this assignment (and the first few hours that will follow our introductory lecture) is to build some minimal working knowledge with random vectors, a concept we will use often throughout the semester and which is also indispensable in machine learning and (the probabilistic/statistical approach to) computer vision. For most of you, it will be the first time you see this material. That might be a lot to digest, and perhaps not everything will be clear to you right away, but no dismay. Things will become, almost surely, clearer as we go along.

The Assignment

Solve and submit your solutions to Problems 1–18 in “CV201 notes on random vectors” (available at www.cs.bgu.ac.il/~cv201/Material). Most of the contents of these notes will also be covered in class, but you are encouraged to start before we get to it. Note well: Even though the problems end slightly before the end of the notes, please recall you are asked and expected to read the notes to their entirety (as they appear as mandatory reading in the course website).