

# [Homework] Gaussian Mixture Model (GMM)

Jae Yun JUN KIM\*

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**Due:** Before the next lab session.

**Evaluation:** Code submission before the next lab session

- code (in group of two or three people)

**Remark:**

- Only groups of two or three people accepted. Forbidden groups of one or larger than three people.
  - No late homework will be accepted.
  - No plagiarism. If plagiarism happens, both the “lender” and the “borrower” will have a zero.
  - Code yourself from scratch. No homework will be considered if you solve the problem using any ML library.
  - Do thoroughly all the demanded tasks.
  - Study the theory for the interrogation.
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## 1 Tasks

1. Implement yourself the GMM algorithm for **Example 1** (density estimation for a Gaussian mixture) given in the Lab 3 document, **but now in 3 dimensions (instead of 2 dimensions, which was the case in Example 1).**

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\*ECE Paris Graduate School of Engineering, 37 quai de Grenelle 75015 Paris, France; jae-yun.jun-kim@ece.fr