

Computational Photography (CSCI 3240U) — In-class Exercise

Please hand in this paper to the instructor before the end of the lecture.

Lastname (PRINT): _____ Firstname: _____

Student number: _____ Date: _____

Q. Homogeneous Coordinates

Show that the line between two 2D points (x_1, y_1) and (x_2, y_2) is given by $(x_1, y_1, 1) \times (x_2, y_2, 1)$. Now use this fact to compute the line $ax + by + c = 0$ between $(1, 1)$ and $(2, 4)$.