

Administrivia

Geometric Algorithms

Lecture 0

CAS CS 132

What is this course?

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linear algebra for computer science

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linear algebra with a data science bent

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see course schedule for full details

Why are we doing this?

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geometric thinking is fundamental

>> nearest neighbors

>> separating hyperplanes

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>> PageRank

>> SVD

>> neural networks, support vector machines, convolution

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(this is what we signed up for)

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material is on the course website (and GitHub

discussion + announcements are on Piazza

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homework is released Thursday, due following **Thursday at 11:59PM**

slides are released before lecture

sections are for reviewing homework solutions and course material (more info during your first section)

What's the workload?

(it's a fair amount, but hopefully still fair)

2 lectures/week

1 section/week

1 assignment (with some programming)/week
(12 total, graded on top 10)

1 midterm

1 final

1 (very short) feedback survey/week

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If you're on Windows, I generally recommend installing a WSL environment

How are we graded?

50% assignments

20% midterms

25% final

05% participation

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it's an easy way to get some points if you're struggling with the material

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remember: you can drop assignments, and you will have to do this stuff on exams

we take this seriously

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2. go to office hours
3. send me an email if you're struggling

Anything else?

please contact me as soon as possible if you need disability accommodations

read and understand all course and university guidelines

don't hesitate to suggest how to make this course better

Statistics

240 students (120/section)

8 sections (Mondays)

13 course staff members (me, 2 TFs, 2 TAs, 8 CAs)

25 hrs/week office hours

Lastly...

we are human

it's important to meet people where they are

we are here to help you succeed

we take this seriously

This course is always changing, some things work, some don't

(I'm sure I missed something. Ask questions!)