

# CS3230R: Spring 2014, Fall 2014

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**Info on CS3230R  
for Fall 2014 semester.**

LeongHW  
(Presented in Fall 2014)

*"Algorithms is a most interesting  
subject matter for challenging  
and fun research work  
that has wide ranging applications."*

# Option 1:

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## Reading existing paper on algorithms

- ❖ implementing one/two algorithms,
- ❖ do a performance comparison.

## Possible Topics: (from LeongHW)

- ❖ Algorithms for detecting communities in large sparse graphs
- ❖ Algorithms for 3D Bin Packing

# Option 2:

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□ Research new algo. for your problem

❖ Practical Study:

◆ *Implement it & evaluate it against others*

❖ Theoretical study:

◆ *Complexity analysis and compare against existing*

# Deliverables

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## ❑ Mid-Term Presentation

❖ Week 9,10 – to be scheduled

## ❑ Project Report

❖ Due: Thu, 13-Nov (Week 13)

## ❑ Project Presentation Showcase

❖ Thu, 20-Nov (Reading Wk)  
10am-12nn

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*Thank you.*

*Q & A*



School of Computing



# Fun activity for all

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## □ Help make algorithms FUN

- ❖ Creating / Showcasing interesting applications
- ❖ Making algorithms a FUN OUTDOOR activity, suitable for high school students