Course Outline

Important Notice for T3-2020

In T3-2020, we plan to have a mixture of online and face-to-face activities. All lectures will be offered online in the form of topic-based videos, which you can watch in your own time. Tutorials will be held in the timetabled time slots. We will have online and face-to-face tutorials.

Face-to-face tutorials will take place in the following time slots:

8606 (postgrad), 8617 (undergrad)	H14A	Thursday 2:00 PM - 4:00 PM	K-G17-G10	ElecEngG10
8602(postgrad), 8613 (undergrad)	F12A	Friday 12:00 PM - 2:00 PM	K-G17-G04	ElecEngG04
8604(postgrad), 8615 (undergrad)	F14A	Friday 2:00 PM - 4:00 PM	K-G17-G04	ElecEngG04

All remaining slots are online tutorials and will be done via MS Teams.

Assignments and quizzes will be done online as usual. The Final Exam will most likely be held online.

Please, this planning assumes the current situation will not change. It may be necessary to make adjustments in case, for example, of changes in the social distancing rules.

If you are planning to return to campus this term, please read the Safe Return to Campus FAQs (https://www.covid-19.unsw.edu.au/safe-return-campus-faqs) and these instructions from UNSW Engineering (https://edtech.eng.unsw.edu.au/c19mess/comms.html) .

Course Timetable

Lectures

COMP9418/1UGA	Week 1-5,7-10	Pre-recorded lectures	Online	Gustavo Batista
COMP9418/1PGA	Week 1-5,7-10	Youtube and Echo360	Online	

Tutorials

W12A	wed12a	Week 1-5,7-10	Wed 12:00 - 14:00	Online MS Teams	Payal Bawa
W14A	wed14a	Week 1-5,7-10	Wed 14:00 - 16:00	Online MS Teams	Payal Bawa
H14A	thu14a	Week 1-5,7-10	Thu 14:00 - 16:00	ElecEngG10 COVID cap 34	Jeremy Gillen

H16A	thu16a	Week 1-5,7-10	Thu 16:00 - 18:00	Online MS Teams	Jeremy Gillen
H16B	thu16b	Week 1-5,7-10	Thu 16:00 - 18:00	Online MS Teams	Payal Bawa
H16C	thu16c	Week 1-5,7-10	Thu 16:00 - 18:00	Online MS Teams	Peng Yi
F12A	fri12a	Week 1-5,7-10	Fri 12:00 - 14:00	ElecEngG04 COVID cap 32	Jeremy Gillen
F12B	fri12b	Week 1-5,7-10	Fri 12:00 - 14:00	Online MS Teams	Payal Bawa
F14A	fri14a	Week 1-5,7-10	Fri 14:00 - 16:00	ElecEngG04 COVID cap 32	Jeremy Gillen
F14B	fri14b	Week 1-5,7-10	Fri 14:00 - 16:00	Online MS Teams	Payal Bawa

Overview

In this course, we will study a class of inference models known as Probabilistic Graphical Models (PGMs). PGMs are a great example of how Computer Science and Statistics can work together. PGMs use graph data structures to represent domains with large amounts of variables and specialised algorithms for efficient inference over these graphical models. Therefore, PGMs have pushed the limits of probability theory to the scale and rate necessary to provide automated reasoning in modern AI systems.

During this course, we will cover several graphical models, including Bayesian networks, Markov networks, Conditional Random Fields, Markov chains, Hidden Markov Models and Markov decision processes. We will have a clear understanding of how these models work as well as their main algorithms for inference and learning. We will also cover several algorithms used to learn parameters and make inference such as Monte Carlo Markov Chains (MCMC), Gibbs Sampling, Viterbi and the Baum-Welch algorithms, among others.

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Course Details

Course Code	COMP9418
Course Title	Advanced Topics In Statistical Machine Learning
Convenor	Gustavo Batista (/users/z3527242)
Admin	Jeremy Gillen (/users/z5118358)
Consultations	Thursday 11:00-12:00, MS Teams
Units of Credit	6
Course Website	www.cse.unsw.edu.au/~cs9418/20T3/index.html (http://www.cse.unsw.edu.au/~cs9418/20T3/index.html)
Handbook Entry	http://www.handbook.unsw.edu.au/postgraduate/courses/current/COMP9418.html (http://www.handbook.unsw.edu.au/postgraduate/courses/current/COMP9418.html)

Course Summary

This course presents an in-depth study of statistical machine learning approaches. It aims to provide the student with a solid understanding of methods for learning and inference in structured probabilistic models, with a healthy balance of theory and practice.

It will cover topics on the semantics of direct and undirected representations in probabilistic graphical models, exact and approximate inference, and learning of model parameters and structure.

Assumed Knowledge

Official Pre-requisites

Knowledge of machine learning at the level of COMP9417.

Programming

We will use Python in the practical part of our bring-your-own-device tutorials. Student will have to install Jupyter Notebook in their computers to execute the practical part of the tutorials. Alternatively, they can remotely access the VLAB computers using a VPN (if outside UNSW) and software such as TigerVNC (https://tigervnc.org/) . However, it is expected that students unfamiliar with Python can get up to speed if they are able to construct (i.e., design, implement and test) working software in a general-purpose language such as C/C++ or Java, at least to the level of a first-year computing course (e.g., COMP1927 Computing 2 or equivalent). Having a good working knowledge of and be able to construct working software in standard data analysis languages such as Matlab/Octave, or R can also be helpful.

Software Tools

Since an important part of practical machine learning is "data wrangling" (i.e. pre-processing, filtering, cleaning, etc.) of data files, students are expected to master Unix tools such as those taught in COMP2041 Software Construction, or equivalents such as those in Matlab/Octave or R.

Student Learning Outcomes

After completing this course, students will:

1. Derive statistical independence assumptions from a given graphical representation of a probabilistic model
2. Understand and implement exact inference methods in graphical models including variable elimination and the junction tree algorithm
3. Derive and implement maximum likelihood learning approaches to latent variable probabilistic models
4. Understand and implement approximate inference algorithms in graphical models, including sampling and loopy belief propagation.
5. Understand and apply basic methods for structured prediction

This course contributes to the development of the following graduate capabilities:

Graduate Capability	**Acquired in**
Scholars capable of independent and collaborative enquiry, rigorous in their analysis, critique and reflection, and able to innovate by applying their knowledge and skills to the solution of novel as well as routine problems	Lectures, tutorials, assignments and exam
Entrepreneurial leaders capable of initiating and embracing innovation and change, as well as engaging and enabling others to contribute to change	Assignments
Professionals capable of ethical, self-directed practice and independent lifelong learning	Lectures, tutorials and assignments
Global citizens who are culturally adept and capable of respecting diversity and acting in a socially just and responsible way	Lectures, tutorials, assignments and student interactions

Teaching Strategies and Rationale

Machine learning is at the intersection of Artificial Intelligence, Computer Science and Statistics. While the main goal of this course is to go beyond the basics of machine learning as provided by COMP9417 (focused on probabilistic modelling and inference), we will adopt a similar teaching rationale, where theory, algorithms and empirical analysis are all important components of the course. Therefore, the lectures, tutorials and assessments are design to address these components jointly.

The course involves lectures and practical work.

- *Lectures:* Aim to summarise the concepts and present case studies.
- *Tutorials:* Aim to reinforce the topics covered in lectures and will cover theoretical and practical exercises. The practical part of the tutorials will be based on a bring-your-own-device approach, where students will be introduced to the technology required for the assignments and follow a series of programming and data analysis questions. There will be no formal assessment of the tutorials.
- *Assignments:* Aim the same as the tutorials at a higher degree of difficulty and will be assessed.
- *Final exam:* There will be a final exam.

Engagement Tools and Blended Learning

- All lectures (slides/recordings) will be on the Web.
- All tutorial and lab materials (questions before, solutions after) will be on the Web.
- All assignments will have specifications on the Web and online submission.
- The final exam will likely be online.
- Forum (https://webcms3.cse.unsw.edu.au/COMP9418/20T3/forums/course) for answering questions using WebCMS3

Student Conduct

The **Student Code of Conduct** (Information (https://student.unsw.edu.au/conduct) , Policy (https://www.gs.unsw.edu.au/policy/documents/studentcodepolicy.pdf)) sets out what the University expects from students as members of the UNSW community. As well as the learning, teaching and research environment, the University aims to provide an environment that enables students to achieve their full potential and to provide an experience consistent with the University's values and guiding principles. A condition of enrolment is that students *inform themselves* of the University's rules and policies affecting them, and conduct themselves accordingly.

In particular, students have the responsibility to observe standards of equity and respect in dealing with every member of the University community. This applies to all activities on UNSW premises and all external activities related to study and research. This includes behaviour in person as well as behaviour on social media, for example Facebook groups set up for the purpose of discussing UNSW courses or course work. Behaviour that is considered in breach of the Student Code Policy as discriminatory, sexually inappropriate, bullying, harassing, invading another's privacy or causing any person to fear for their personal safety is serious misconduct and can lead to severe penalties, including suspension or exclusion from UNSW.

If you have any concerns, you may raise them with your lecturer, or approach the School Ethics Officer (mailto:ethics-officer@cse.unsw.edu.au) , Grievance Officer (mailto:grievance-officer@cse.unsw.edu.au) , or one of the student representatives (https://www.cse.unsw.edu.au/~stureps/) .

Plagiarism is defined as (https://student.unsw.edu.au/plagiarism) using the words or ideas of others and presenting them as your own. UNSW and CSE treat plagiarism as academic misconduct, which means that it carries penalties as severe as being excluded from further study at UNSW. There are several on-line sources to help you understand what plagiarism is and how it is dealt with at UNSW:

- Plagiarism and Academic Integrity (https://student.unsw.edu.au/plagiarism)
- UNSW Plagiarism Procedure (https://www.gs.unsw.edu.au/policy/documents/plagiarismprocedure.pdf)

Make sure that you read and understand these. Ignorance is not accepted as an excuse for plagiarism. In particular, you are also responsible that your assignment files are not accessible by anyone but you by setting the correct permissions in your CSE directory and code repository, if using. Note also that plagiarism includes paying or asking another person to do a piece of work for you and then submitting it as your own work.

UNSW has an ongoing commitment to fostering a culture of learning informed by academic integrity. All UNSW staff and students have a responsibility to adhere to this principle of academic integrity. Plagiarism undermines academic integrity and is not tolerated at UNSW. Plagiarism at UNSW is defined as using the words or ideas of others and passing them off as your own.

If you haven't done so yet, please take the time to read the full text of

- UNSW's policy regarding academic honesty and plagiarism (https://student.unsw.edu.au/plagiarism)

The pages below describe the policies and procedures in more detail:

- Student Code Policy (https://www.gs.unsw.edu.au/policy/documents/studentcodepolicy.pdf)
- Student Misconduct Procedure (https://www.gs.unsw.edu.au/policy/documents/studentmisconductprocedures.pdf)
- Plagiarism Policy Statement (https://www.gs.unsw.edu.au/policy/documents/plagiarismpolicy.pdf)
- Plagiarism Procedure (https://www.gs.unsw.edu.au/policy/documents/plagiarismprocedure.pdf)

You should also read the following page which describes your rights and responsibilities in the CSE context:

- Essential Advice for CSE Students (https://www.engineering.unsw.edu.au/computer-science-engineering/about-us/organisational-structure/student-services/policies/essential-advice-for-cse-students)

Assessment

Please note due dates are subject to change.

Item	Topics	Due	Marks	Contributes to (learning outcomes)
Assignment 1	Weeks 1-2	Week 5	15%	1-2
Assignment 2	Weeks 3-7	Week 9	15%	3-4
Quizzes	Weeks 2-10	Weeks 2,3,4,5,7,8,9,10	10%	1-5
Final Exam	All topics	Exam period	60%	1-5

Quizzes are multiple-choice questions used to check the understanding during the course. The final mark for quizzes is the simple average of the eight quiz marks. Each quiz mark is normalised in the range 0-10.

There is a hurdle on the Final Exam; very poor performance in the exam will result in a fail, even if all your other assessment marks have been satisfactory. The following formula describes precisely how the mark will be computed and how the hurdle will be enforced.

```
quizzes    = mark for quizzes (out of 10)
ass1       = mark for assignment 1 (out of 15)
ass2       = mark for assignment 2 (out of 15)
finalExam  = finalExam (out of 60)

okExam     = finalExam >= 24/60
mark       = quizzes + labs + ass1 + ass2 + exam

grade      = HD|DN|CR|PS if mark >= 50 && okExam
           = FL if mark < 50
           = UF if mark >= 50 && !okExam
```

Special Consideration

If your work in this course is affected by unforeseen adverse circumstances, you can apply for Special Consideration (https://student.unsw.edu.au/special-consideration) through MyUNSW (https://iaro.online.unsw.edu.au/special_consideration/home.login#_blank) , including documentation on how your work has been affected. If your request is reasonable and your work has clearly been impacted, then

- for an assignment, you may be granted an extension
- for the Final Exam, you may be offered a Supplementary Exam

Note the use of the word "may". None of the above is guaranteed. It depends on you making a convincing case that the circumstances have clearly impacted your ability to work.

Course Schedule

Please note this is a tentative schedule. All dates are only indicative and subject to change.

Week	Lecture	Tutorial	Assignment	Quizzes

1	Course overview [Ch. 1], propositional logic [Ch. 2] and probability calculus [Ch. 3]	Graph representation, traversal and common algorithms	-	-
2	Bayesian networks representation and semantics [Chs. 4 and 5]	Probability calculus and factor implementation	-	Quiz 1
3	Exact inference [Ch. 6]. Bayesian networks as classifiers	Bayesian networks	Ass1 released	Quiz 2
4	Markov chains and Hidden Markov models	Bayesian network classifiers	-	Quiz 3
5	Markov networks. The jointree algorithm [Chs. 7 and 9]	Markov chains and Hidden Markov models	Ass1 due	Quiz 4
6	Flexibility Week	-	Ass2 released	-
7	Belief propagation [Ch. 14]. MAP inference [Ch. 10]	Markov networks. Jointree algorithm	-	Quiz 5
8	Approximate inference by Sampling [Ch. 15]	Belief propagation. MAP inference	-	Quiz 6
9	Learning parameters and graph structure [Ch. 17]	Approximate inference	Ass2 due	Quiz 7
10	Bayesian learning [Ch. 18]. Decision diagrams	Learning parameters and graph structure	-	Quiz 8

Resources for Students

This website also has links to the auxiliary material/documentation that you will need for the course. Solutions for all tutorial questions and exercises will also be made available.

Prescribed Book

- [Book] Modeling and Reasoning with Bayesian Networks (https://www.cambridge.org/core/books/modeling-and-reasoning-with-bayesian-networks/8A3769B81540EA93B525C4C2700C9DE6) . Adnan Darwiche. Cambridge. 2009 [eBook (https://www.vitalsource.com/en-au/products/-v9781139637701)] [Print (https://www.bookshop.unsw.edu.au/details.cgi?ITEMNO=9780521884389)].

Recommended Books

- [Book] Probabilistic Graphical Models: Principles and Techniques (http://pgm.stanford.edu/) . Daphne Koller and Nir Friedman. MIT Press. 2009 [Print (https://www.bookshop.unsw.edu.au/details.cgi?ITEMNO=9780262013192)].

- [Book] Probabilistic Graphical Models: Principles and Applications (https://www.springer.com/gp/book/9781447166986) . Luis Enrique Sucar. Springer. 2015.
- [Book] Bayesian Reasoning and Machine Learning (http://web4.cs.ucl.ac.uk/staff/D.Barber/pmwiki/pmwiki.php?n=Brml.HomePage) . David Barber. Cambridge University Press. 2012.
    - References to online version (2 Feb 2017).
- [Book] Machine Learning: A Probabilistic Perspective. (https://www.cs.ubc.ca/~murphyk/MLbook/) Kevin P. Murphy. MIT Press. 2012.
- [Book] Pattern recognition and machine learning (https://www.microsoft.com/en-us/research/people/cmbishop/#prml-book) . Christopher M. Bishop. Springer, 2006.

Other resources

- Stanford CS228 course notes (https://ermongroup.github.io/cs228-notes/)

Course Evaluation and Development

This course is evaluated using the myExperience system.

Resource created 12 months ago (Friday 03 July 2020, 11:33:01 PM), last modified 9 months ago (Monday 21 September 2020, 03:46:29 PM).

Comments

(/COMP9418/20T3/forums/search?forum_choice=resource/48989)

(/COMP9418/20T3/forums/resource/48989)



Yashovardhan Diwan (/users/z5189027) 7 months ago (Mon Nov 23 2020 21:37:43 GMT+1100 (Australian Eastern Daylight Time))

Hi Professor,

The times for this exam from 12am to 12am seems quite strange. For all my other classes that have required a 24 hour final period, they have been conducted from 9am-9am or something similar. I understand that the exam should only take 3 hours but regardless, these times seem unnecessarily stressful. If you put yourself in the shoes of a student I think you would find it difficult to sleep knowing you have to complete an exam that has been released. I'm sure it would be more popular to conduct the exam, starting in the daytime.



Jeremy Gillen (/users/z5118358) 7 months ago (Tue Nov 24 2020 12:17:01 GMT+1100 (Australian Eastern Daylight Time))

Hi Yashovardhan,

That is a good point, and I understand that the times might cause some difficulty sleeping. I recommend that you go to sleep early.

On the other hand, I think having so long to complete a 3-hour exam will make it **so much** easier and less stressful than other years. Even if you go slow, I recommend you don't spend more than ~5 hours on it, because past that point, you'd probably just be overthinking tiny details.

Regards,

Jeremy



William Gu (/users/z5160098) 8 months ago (Mon Nov 02 2020 15:30:08 GMT+1100 (Australian Eastern Daylight Time))

Hi, it seems that we are a week behind the schedule, are we going to finish all of the content?



Gustavo Batista (/users/z3527242) 8 months ago (Tue Nov 03 2020 08:50:02 GMT+1100 (Australian Eastern Daylight Time))

Hi William,

I do not think so. But, we should be able to cover the main topics of learning.

Gustavo.



Arkie Owen (/users/z5206914) 9 months ago (Wed Sep 23 2020 13:18:11 GMT+1000 (Australian Eastern Standard Time))

For the group assignment, are we limited to groups made of people in our tutorial, or can we work with people from other tutes?



Gustavo Batista (/users/z3527242) 9 months ago (Wed Sep 23 2020 14:27:41 GMT+1000 (Australian Eastern Standard Time))

Hi Arkie,

fell free to work with anyone enrolled in the course.

Gustavo.



Yue Wu (/users/z5146117) 9 months ago (Tue Sep 22 2020 18:18:38 GMT+1000 (Australian Eastern Standard Time))

Hi COMP9418 Team,

I'm still not added to COMP9418 on Microsoft Teams. I'm wondering if the problem with Teams has been fixed. If so, can someone manually add me to Teams, so I can get access to the tutorial?

Thank you very much!



Jeremy Gillen (/users/z5118358) 9 months ago (Tue Sep 22 2020 18:30:20 GMT+1000 (Australian Eastern Standard Time))

Hi Yue,

They haven't told me that it's fixed yet, but I tried adding you anyway. If the issue still exists, it might automatically remove you. Here's a link to the team, which you might be able to use to access the team if adding you hasn't worked: https://teams.microsoft.com/l/team/19:5b6d0980ee... (https://teams.microsoft.com/l/team/19%3a5b6d0980eeca48a6a46e1d2f2e6dccb1%40thread.tacv2/conversations?groupId=8de27122-efa3-4630-b0ad-9798760f60d6&tenantId=3ff6cfa4-e715-48db-b8e1-0867b9f9fba3)

If neither of those things worked, you can still use the links I sent in the notice last week, those will still link to the right meetings.



Yue Wu (/users/z5146117) 9 months ago (Tue Sep 22 2020 19:22:20 GMT+1000 (Australian Eastern Standard Time))

Thanks a lot, Jeremy. So far, I'm still staying in the COMP9418 Team on Teams. I'll use the link to access tutorials if I'm removed. :)



Connor Baginski (/users/z5207788) 9 months ago (Wed Sep 16 2020 20:32:11 GMT+1000 (Australian Eastern Standard Time))

Apologies for the lateness, but I've just had to switch to the Thursday 4pm tutorial. Could I get a new meeting invite sent, please?



Jeremy Gillen (/users/z5118358) 9 months ago (Wed Sep 16 2020 23:19:32 GMT+1000 (Australian Eastern Standard Time))

Hi Connor,

You can access any of the tutorial meetings by logging into Teams and going to the relevant channel (there's one channel for each tutorial). Each channel has the meeting link.



Connor Baginski (/users/z5207788) 9 months ago (Wed Sep 16 2020 23:37:06 GMT+1000 (Australian Eastern Standard Time))

Hi Jeremy,

I just checked Teams and don't think I'm enrolled in the COMP9418 team. As far as I can tell I only have the meeting invite.

My ID is z5207788.



Jeremy Gillen (/users/z5118358) 9 months ago (Wed Sep 16 2020 23:44:35 GMT+1000 (Australian Eastern Standard Time))

Whoops, sorry about that. Added you to the team.



Connor Baginski (/users/z5207788) 9 months ago (Thu Sep 17 2020 14:25:49 GMT+1000 (Australian Eastern Standard Time))

I checked last night and I was in the team after you added me, but it seems to no longer be there for me now.



Jeremy Gillen (/users/z5118358) 9 months ago (Thu Sep 17 2020 17:36:11 GMT+1000 (Australian Eastern Standard Time))

Yeah I added you manually but the automated system removed you again. We're in the process of fixing it, in the mean time you'll have to use the meeting links that were posted in the announcement.

Saksham Yadav (/users/z5164624) 9 months ago (Wed Sep 16 2020 10:58:47 GMT+1000 (Australian Eastern Standard Time))

Hi Professor,

How many attempts do we have at the quizzes? Thanks!



Jeremy Gillen (/users/z5118358) 9 months ago (Wed Sep 16 2020 11:27:16 GMT+1000 (Australian Eastern Standard Time))

You can submit quizzes as many times as you like before the due date, and only the most recent submission will be marked.

The answers will be released at the end of the week, after the due date.

Christopher Leong (/users/z5332008) 9 months ago (Tue Sep 15 2020 18:25:36 GMT+1000 (Australian Eastern Standard Time))

Dear Prof., could you please advice how I could find out my tutorial time?



Jeremy Gillen (/users/z5118358) 9 months ago (Tue Sep 15 2020 18:38:38 GMT+1000 (Australian Eastern Standard Time))

Hi Christopher,

Your tutorial is F14A, which is Friday at 2pm-4pm, in ElecEngG04. This should be on your timetable on MyUNSW.

Christopher Leong (/users/z5332008) 9 months ago (Tue Sep 15 2020 18:59:45 GMT+1000 (Australian Eastern Standard Time))

Hi Jeremy, I thought this course was online. I went into MyUNSW and I found the tutorial - it said online.



Jeremy Gillen (/users/z5118358) 9 months ago (Tue Sep 15 2020 19:19:41 GMT+1000 (Australian Eastern Standard Time))

There are online tutorials and in person tutorials. The course outline specifies which ones are online and which are in person. There must have been an error with the MyUNSW tutorial descriptions to make them all say online. Would you be able to swap your enrollment on MyUNSW to one of the online tutorials?

The section "Important Notice for T3-2020" has the tutorial codes (like 8606) for all the in person classes. As long as you choose one of the other tutorials, it will be held online in Microsoft Teams.

Zijian Shen (/users/z5224890) 9 months ago (Wed Sep 16 2020 12:58:47 GMT+1000 (Australian Eastern Standard Time))

Hi Jeremy, will these tutorials be recorded? online tutorials and in person tutorials

Jeremy Gillen (/users/z5118358) 9 months ago (Wed Sep 16 2020 13:27:42 GMT+1000 (Australian Eastern Standard Time))



Hi Zijian,

Online tutorials will be recorded (in theory, as long as the tutor remembers to press record), and the recordings will be visible in on the Teams channel for that tutorial.

In person tutorials won't be recorded.

Most of the value of tutorials is in being part of the discussion and asking questions as they come up, so I recommend you don't rely on recordings unless have to. If you can't attend a tutorial, you can attend a different tutorial for that week.



Christopher Leong (/users/z5332008) 9 months ago (Tue Sep 15 2020 20:36:04 GMT+1000 (Australian Eastern Standard Time))

Thanks, fixed!



Xin Ma (/users/z5203365) 9 months ago (Mon Sep 14 2020 16:31:52 GMT+1000 (Australian Eastern Standard Time))

What about final exam format?



Jeremy Gillen (/users/z5118358) 9 months ago (Mon Sep 14 2020 16:44:31 GMT+1000 (Australian Eastern Standard Time))

Hi Xin,

The final exam format hasn't been finalised yet. It will most likely be online.



Siying Huang (/users/z5253264) 9 months ago (Sun Sep 13 2020 18:31:08 GMT+1000 (Australian Eastern Standard Time))

Hi prof,

Could we get group assignments or two individual assignments?

Thanks!



Gustavo Batista (/users/z3527242) 9 months ago (Mon Sep 14 2020 11:52:02 GMT+1000 (Australian Eastern Standard Time))

Hi Siying,

The second assignment will be a group assignment (3 students). Regarding the first one, we are still deciding. We will let you know.

Gustavo.



Siying Huang (/users/z5253264) 9 months ago (Tue Sep 15 2020 12:44:44 GMT+1000 (Australian Eastern Standard Time))

If I cannot find enought student to set up a group, could you consider 1-3 students as a group to do the assignment?Thanks



Gustavo Batista (/users/z3527242) 9 months ago (Tue Sep 15 2020 13:23:28 GMT+1000 (Australian Eastern Standard Time))

Yes, no problem at all.

Gustavo.



Son Tong (/users/z3448000) 9 months ago (Sat Sep 12 2020 14:46:31 GMT+1000 (Australian Eastern Standard Time))

Dear Prof. Batista,

I was just wondering if the textbook titled "Probabilistic Graphical Models: Principles and Techniques" by Koller and Friedman can be used in lieu of the prescribed textbook for this course? I have started reading up on it and find that it is much more comprehensible than the prescribed one.

Thank you & kind regards,

Tyson



Gustavo Batista (/users/z3527242) 9 months ago (Mon Sep 14 2020 11:55:34 GMT+1000 (Australian Eastern Standard Time))

Hi Tyson,

yes, go ahead.

Regards,

Gustavo.

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