

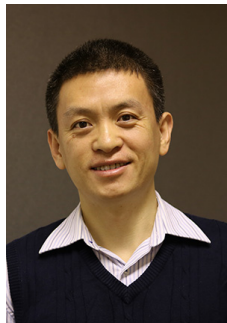
# COM4509/6509 Machine Learning and Adaptive Intelligence

Department of Computer Science,  
The University of Sheffield

# Instructors



Dr. Mauricio A. Álvarez  
(Module leader)



Dr. Haiping Lu

# Teaching assistants (I)



Fariba Yousefi



Hardy Hardy



Juan-José Giraldo



Yan Ge

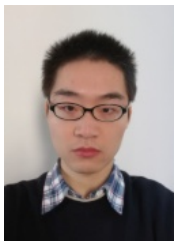
## Teaching assistants (II)



Shuo Zhou



Senee Kitimoon



Chao Han



Nada Yehia

# Content of the module

Week	Starting	Subject	Lecturer
1	Sept 24	Intro. to ML and Review of Probability	MA
2	Oct 1	Objective functions	MA
3	Oct 8	Linear regression	MA
4	Oct 15	Basis functions	MA
5	Oct 22	Generalisation	MA
6	Oct 29	Bayesian regression	HL
7	Nov 5	Unsupervised learning	HL
8	Nov 12	Reading week	
9	Nov 19	Naive Bayes	HL
10	Nov 26	Logistic regression	HL
11	Dec 3	Other topics	HL

# Assessment (subject to Departmental coordination)

## □ Assignments

<b>Assign.</b>	<b>Subject</b>	<b>Release date</b>	<b>Handle in</b>	<b>%</b>
1	Intro. to Python and Review of Prob.	Sept 24	Oct 5	3
2	Objective functions	Oct 1	Oct 12	5
3	Linear regression	Oct 8	Oct 19	5
4	Basis functions	Oct 15	Oct 26	5
5	Generalisation	Oct 22	Nov 02	5
6	Bayesian regression	Oct 29	Nov 09	5
7	Unsupervised learning	Nov 5	Nov 23	7
Total				35%

- MOLE quiz (Dec 5), 15%.
- Final Exam (Date:TBA), 50%.

# Marking and Feedback

- Demonstrators responsible for marking

Assign.	Subject	Markers
1	Intro. to Python and Review of Prob.	Hardy Hardy, Nada Yehia
2	Objective functions	Shuo Zhou, Yan Ge
3	Linear regression	Juan-José Giraldo, Chao Han
4	Basis functions	Nada Yehia, Senee Kiti-moon
5	Generalisation	Shuo Zhou, Chao Han
6	Bayesian regression	Juan-José Giraldo, Senee Kitimoon
7	Unsupervised learning	Hardy Hardy, Yan Ge

- As a department we aim to return all assessed work within three weeks (unless that period involves a vacation, in which case it is five) after submission.

# We will use MOLE for:

- ❑ sharing course material.
- ❑ a discussion board.
  - The discussion board IS for:
    - ▶ asking general questions about the contents of the lectures.
    - ▶ *clarifications* about the assignments.
    - ▶ if you know the answer to somebody else's question, please answer. Help your peers!
  - The discussion board IS NOT for:
    - ▶ asking how to solve the assignment.
    - ▶ give the solution to what is being asked in the assignments.
- ❑ Only email the Module leader if you have personal questions or issues. Otherwise, please use the discussion board.
- ❑ **Please, be professional and polite.**



# Discussion board management

Demonstrators responsible for managing the discussion board

<b>Assign.</b>	<b>Subject</b>	<b>DB Manager</b>
1	Intro. to Python and Review of Prob.	Hardy Hardy
2	Objective functions	Shuo Zhou
3	Linear regression	Juan-José Giraldo
4	Basis functions	Nada Yehia
5	Generalisation	Chao Han
6	Bayesian regression	Senee Kitimoon
7	Unsupervised learning	Yan Ge
9, 10, 11	Naive Bayes, logistic regression, other topics.	Fariba Yousefi

# About the lab sessions

- ❑ You will need a GitHub account to access the labs. You can open one freely at <https://github.com/>.
- ❑ Go to the Lab Session that appears in your personal timetable. If your timetable says you have a Lab Session on Monday, go to that one. Otherwise, go to Wednesdays.
- ❑ Please, check the computer room for each week. There are slight variations in times and places.

# Slides and Lab Notebooks

We will use the material originally developed by Prof. Neil Lawrence. The slides for the Lectures and the Lab Notebooks are in <http://inverseprobability.com/mlai2015/>.