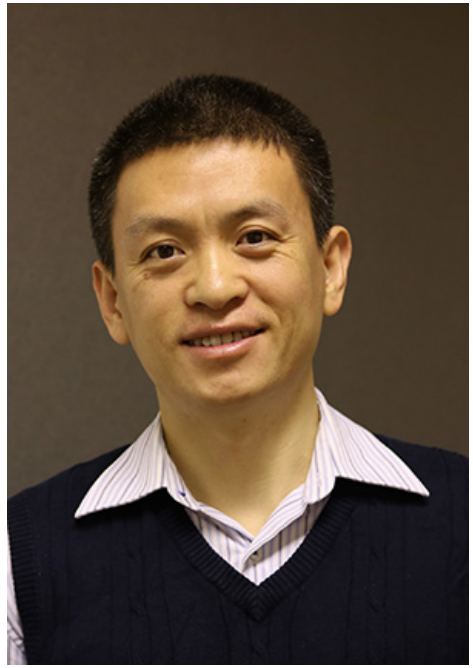
COM4509/6509 Machine Learning and Adaptive Intelligence

Department of Computer Science,
The University of Sheffield

Instructors

Dr. Mauricio A. Álvarez
(Module leader)



Dr. Haiping Lu

Teaching assistants (I)

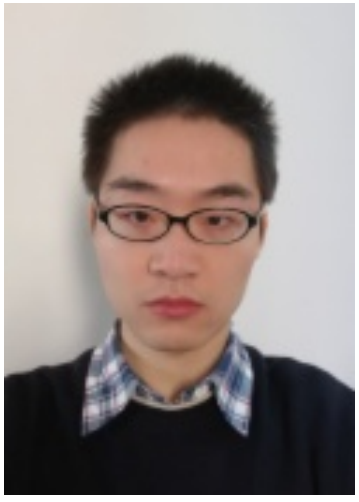
Shuo Zhou

Yan Ge

Li Zhang

Senee Kitimoon

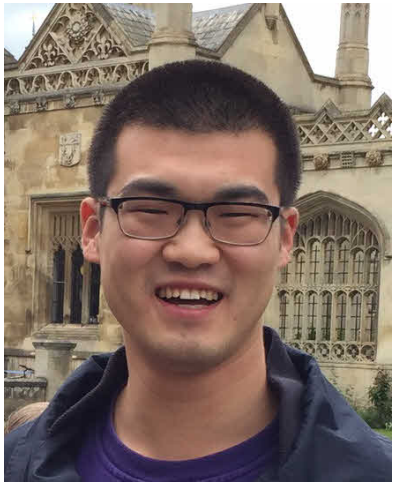
Teaching assistants (II)



Chao Han

Mingjie Chen

Nada Yehia



Chunchao Ma

Content of the module

Week	Starting	Subject	Lecturer
1	Sept 30	Intro. to ML and Review of Probability	MA
2	Oct 7	Objective functions	MA
3	Oct 14	Linear regression	MA
4	Oct 21	Basis functions	MA
5	Oct 28	Generalisation	MA
6	Nov 4	Bayesian regression	HL
7	Nov 11	Unsupervised learning	HL
8	Nov 18	Naive Bayes	HL
9	Nov 25	Logistic regression	HL
10	Dec 2	Other topics (Guest Lecture)	NL

Assessment (subject to Departmental coordination)

- Assignments

Assign.	Subject	Hand out	Handle in	%
1	Weeks 1 to 5	Oct 15	Oct 29 (14:00 Hrs)	20
2	Weeks 6 to 9	Nov 19	Dec 3 (14:00 Hrs)	20
			Total	40%

- First MOLE quiz, Friday Oct 18 at 17:00, 10%.
- Second MOLE quiz, Friday Nov 22 at 17:00, 10%.
- Final Exam (Date:TBA), 40%.

Marking and Feedback

Taken from the Student Handbook:

> "Your lecturer will mark your work within a reasonable period. A reasonable period is
>
> - within a week, for short question sheets from small classes;
> - within three working weeks, for larger pieces of work or work for very large classes (if this includes a vacation this is five weeks),"

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

Labs	Subject	DB Manager
1	Review of Prob.	Mingjie Chen
2	Objective functions	Shuo Zhou
3	Linear regression	Chunchao Ma
4	Basis functions	Nada Yehia
5	Generalisation	Chao Han
6	Bayesian regression	Senee Kitimoon
7	Unsupervised learning	Yan Ge
8	Naive Bayes	Li Zhang
9	Logistic regression	Chunchao Ma

Assignments	Subject	DB Manager
1	Weeks 1 to 5	Senee Kitimoon, Mingjie Chen, Chunchao Ma, Nada Yehia.
2	Weeks 6 to 9	Shuo Zhou, Li Zhang, Chao Han, Yan Ge.

About the lecture room, and lab rooms and sessions

- You will need a GitHub account to access the labs. You can open one freely at `https://github.com/`.

- Rooms:
  - Lecture: Diamond A06, LT3
  - Lab room (weekly) and for the quizzes: Diamond, 201 and 207, PC1 and PC3.

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/`.