Yuwei **Jiao**

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Education

Computer Science   *University of Waterloo*

EXCHANGE PROGRAM, AVERAGE GRADE: 94/100   *2015. 9 - 2016. 4*

- Introduction to Artificial Intelligence, User Interface, Introduction to Database Management, Distributed Systems, Numeric Computation For Financial Modelling

Computer Science and Technology   *Tsinghua University*

CANDIDATE FOR BACHELOR OF ENGINEERING, AVERAGE GRADE: 86/100   *2012. 9 - Exp. 2016. 7*

- Introduction to Machine Learning, Introduction to Artificial Intelligence, Artificial Neural Networks, Fundamentals of Computer Graphics, Software Engineering, Operating Systems, Theory of Computer Network

Experience

University of Waterloo   *Waterloo, Canada*

UNDERGRADUATE RESEARCH ASSISTANT, SUPERVISED BY PROFESSOR JESSE HOEY   *2016. 1 - 2016. 5*

- Research: Social Dilemmas: From Rational to Human Perspectives.
- Started from a purely rational standpoint to human solutions and the evolution of cooperation. Completed a paper review based on twelve related publications in biology, psychology and computer science area.
- Apply humans' emotions and social interactions to intelligence machine. Test on Iterated Prisoner's Dilemma Game. Better performance than traditional tit-for-tat agent. Similar behavior graph compared with human players.
- Plan to hold a social dilemma tournament in October which invite people from any area worldwide to participate. Further exploration in human-computer Turing test where agents play Prisoner's Game based on human expression analysis.

Tsinghua University   *Beijing, China*

UNDERGRADUATE COURSE: ARTIFICIAL NEURAL NETWORKS   *2015. 9 - 2015. 1*

- Project: Pattern Recognition
- Implemented neural network models without the help of neural network tools such as Caffe or Theano to classify CIFAR-10 dataset of 60,000 color images in 10 classes.
- Applied neural network with fully connected layers(MLP) and convolutional neural network(CNN) to classify the images and received the accuracy rate of more than 90 percents and 70 percents respectively.
- Combined neural network with fully connected layers and support vector machine(SVM) to increase the accuracy rate by 5 percents.

Tsinghua University   *Beijing, China*

UNDERGRADUATE COURSE: INTRODUCTION TO MACHINE LEARNING   *2015. 2 - 2015. 6*

- Project: Decision Tree Algorithm
- Implemented decision tree to help bank decide whether a person's income exceed a certain amount based on related data.
- Handled missing data and numerical attributes differently and properly with C4.5 decision tree algorithm. Trained a post-pruned decision tree to avoid overfitting problem. Received an accuracy rate of more than 85 percents.

Tencent   *Shenzhen, China*

SOFTWARE ENGINEERING INTERN   *2015. 7 - 2015. 8*

- Developed Online Poster Maker Application. Written in php + SQL on the server end and HTML5 + CSS + javascript on the front end. Implemented in Lithium MVC Framework. Added animation effects and background music to make posters more attractive.
- Enabled users to create a series of posters easily with provided templates for specific scenes, generate web pages and share with friends and teammates online. Could be used as lightweight PowerPoint in life and work.
- The application is now used for official accounts management supported by Wechat(one of the popular social applications in China).

Skills

Programming   C/C++, Java, Python, Matlab, Javascript
Web Development   HTML5, CSS, PHP, SQL, Django, jQuery
Languages   Mandarin, English

Awards

2015	**University of Waterloo / Tsinghua University Award**,	Exchange Program	*Waterloo, Canada*
2015	**University of Melbourne Award**,	Summer School Program	*Melbourne, Australia*
2014	**The Learning Progress Award in Tsinghua University**,	Top 30%	*Beijing, China*