

# Yao Zhang

**Mobile :** 15640022387 **E-mail:** psyyz10@163.com **Home Page:** [psyyz10.github.io/about/](http://psyyz10.github.io/about/)

**Linkedin:** <https://cn.linkedin.com/in/yao-zhang-637a357b>

## Education

### University Of Oxford

**Oxford, UK**

*MSc in Computer Science, especially in Machine learning, GPA: 3.7/4.0*

*Oct 2014–Oct 2015*

### University of Nottingham

**Nottingham, UK**

*BSc in Computer Science, First Class degree, GPA: 3.8/4.0, Rank: 5/180*

*Sep 2011–July 2014*

## Work Experience

### Part-time developer, Development Team, EASA Software, Oxford

*Feb 2015–July 2015*

Worked on a J2EE platform for fast authoring, publishing web applications and automatically transforming Matlab and Excel programs to web applications.

- Solved 30+ tickets with **Java**, **JSP**, **JFS**, **JS**, **Hibernate** techniques, on both front and back end;
- Upgraded data persistence from filesystem to database using Hibernate.
- Also worked on testing and bug fixing.

### Research Assistant, Intelligent Modelling & Analysis Research Group, Nottingham

*July 2014–Sep 2014*

Built a program to identify and annotate the risk factors automatically for Heart Disease in Diabetic Patients

- Operated on a large set of medical record data (10 GB) of diabetic patient
- Solved Natural Language Processing (NLP) tasks with **Java** and **Python**, obtained 84% accuracy.

### Developer Intern, University of Nottingham, Ningbo China

*Jun 2013–Aug 2013*

Worked with a team on a project which aims to optimised the freight transportation at Ningbo port

- Developed an *Android* app as client and an admin website for transportation management
- Functions includes GPS positioning, vehicle tracking, task allocating and daily reporting;

## Projects

Made useful tools and websites in *Java*, *C++*, *Matlab*, *Python* and *J2EE* with 10+ projects. Details in the project list on <http://psyyz10.github.io/projects/>.

### Fantuan

- Fantuan is a social networking mobile application that facilitates offline group dinner in London
- Working on it with a team for its first version release, developed with **Ionic**, **AngularJS**, **Node.js** and **Gulp**

### Stock Prediction with deep learning (Master Dissertation) - High Distinction ([Link](#))

- Proposed an approach using financial reports to predict stock market trends with modified deep learning models
- Programmed with **Python** and a series of libraries such as **Numpy**, **NLTK**, **Theano** and **Sklearn**
- Achieved a **top ranked** mark among the students in MSc Computer Science at the University of Oxford

### Plant Disease Diagnosis Application (Undergraduate Dissertation) - First Class

- Developed an **android** application to identify plant diseases automatically based on leaf appearance
- **Computer vision** and **machine learning** techniques are applied and programmed with **Matlab** and **Java**

### A Mobile Auction Online System - First Class

- As a **technical leader** and main programmer within a group
- Built an online auction and shopping mobile system like ebay with **J2EE**
- Developed algorithms such as proxy bidding, item recommendation, and P2P Network Reputation Management

## Honors and Awards

### High Achievers Awards for academic excellence

*2012–2013*

*For top 10 (out of 180) students in Computer Science department at the University of Nottingham*

### Head's Scholarship for academic excellence

*2011–2012*

*For top 15% students at the University of Nottingham*

## Professional skills

**Professional:** Java, Haskell      **Proficient:** Python, MatLab, JSP, C/C++, Latex, MySQL

**Prior Experience:** AngularJS, R, JavaScript, CSS/Sass, Coq, OpenGL, Node.js, Android, Torch

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手机: 15640022387 E-mail: psyyz10@163.com 个人主页: psyyz10.github.io/about/

Linkedin: <https://cn.linkedin.com/in/yao-zhang-637a357b>

## 教育背景

牛津大学 (世界排名前五) 牛津, 英国  
计算机科学硕士 **GPA: 3.7/4.0** 2014/10–2015/11

诺丁汉大学 (世界排名前百) 诺丁汉, 英国  
计算机科学学士, 一等学位, **GPA: 3.8/4.0**, 排名: 5/180 2010/10 – 2014/06

## 工作经验

兼职软件工程师, 开发组, EASA Software, 牛津 2015/2–2015/6  
从事于一个快速编写发布网络应用, 把Matlab和Excel的程序转自动化为网络应用的一个J2EE的平台

- 解决30+个任务用 Java, JSP, JFS, JS, Hibernate等技术, 包括前端和后端
- 把数据持久性从文件系统升级到数据库用Hibernate
- 同时测试和修改bug

助理研究员, 诺丁汉大学智能建模和分析研究组, 诺丁汉 2014/7–  
2014/9

制作了一个程序来自动识别和标注, 糖尿病病人得心脏病的风险因素

- 操作在一个存放很大的糖尿病病人医疗纪录的数据集 (10 GB)
- 用Java和Python解决自然语言处理有关的任务(NLP), 取得了84%的准确率.

开发者实习, 宁波诺丁汉大学, 中国

2013/6--2013/8

和一个团队一起做一个优化宁波港口货运运输的项目

- 开发了一个给司机的Android客户端和一个运输管理的网站
- 功能包括GPS定位, 车辆跟踪, 任务分派, 每日报告等

## 项目

用Java, C++, Matlab, Python和J2EE等制作了有用的工具和网站, 项目数量10+。详细信息请参考项目列表, 链接 <http://psyyz10.github.io/projects/>.

饭团

- 饭团是一个正在开发中的移动社交网络应用, 它可以简化线下的组团约一起吃饭的过程
- 正在和一个小团队一起开发第一个发布版本, 开发应用Ionic, AngularJS, Node.js和Gulp等技术.

用深度学习做股票预测 (硕士论文) - 研究生一等荣誉论文 (链接)

- 提出了一个用金融报告通过深度学习来预测股票走势是的方法
- 用Python和一些列函数库如Numpy, NLTK, Theano和Sklearn开发。
- 取得了在牛津大学计算机系的学生中的高排名分数

植物疾病诊断应用 (本科论文) - 本科一等荣誉论文

- 开发了一个安卓手机应用, 通过拍照叶片表面来自动识别植物疾病
- 应用计算机视觉和机器学习技术, 主要编程语言是Matlab和Java

一个移动拍卖系统 - 一成绩

- 在一个团队里, 作为一个技术领导者和主要程序员
- 用J2EE, 建立了一个完备的网上竞拍和购物的移动系统
- 开发算法如代理竞标, 物品推荐, 和P2P网络声誉管理等

## 荣誉和奖项

学术高度成就奖学金 2012-2013  
奖给诺丁汉大学计算机系所有学生中, 成绩排在前十名(在180人中)的学生

院长学术成就奖学金 2011-2012  
奖给诺丁汉大学计算机系, 成绩在前15%的学生

## 专业技能

专业: Java, Haskell 熟练: Python, MatLab, JSP, C/C++, Latex, MySQL

有过操作经验: AngularJS, R, JavaScript, CSS/Sass, Coq, OpenGL, Node.js, Android, Torch