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# Education

## University of East Anglia - MSc Advanced Computing Science 2015-2016

**First Degree**

Distributed Computing (81%), Advanced Programming (71%), Machine Learning (68%), Applied Statistics (68%), Human Computer Interaction (62%), Research Technics (70%) and Dissertation (78%).

## Zhejiang University - BS Meteorology 2004

# Hands-on skills

* Machine learning: Scikit-learn(Python), Spark
* Deep Learning: Keras
* Data Presentation: Javascript, HTML5, CSS3, MS Charts, MS Reporting, .Net GDI+, Open GL.
* Database, MS SQL, Oracle
* Developing Languages: Python, C#, VB.net, Java,
* OOP, Refactor, Framework development, API development.

# Machine learning projects

## 2019 [Outlier Detection] PYOD

Submit code to pyod to fix a bug changing multiplication to division.

<https://github.com/yzhao062/pyod/issues/230>

<https://github.com/yzhao062/pyod/pull/231>

## 2019 ONU Clustering

Clustering ONUs by their similarity. Used big data tech (Spark) to process 1 billion rows of data.

I wrote a clustering algorithm Medroid\_Radius for clustering.

## 2018 [NLP] tvshowwords.com

This is like Amazon’s Audible. I personalized the word list (word stemming) and aligned text and speech (text-speech alignment).

Example (The goose and the golden egg):

<https://www.tvshowwords.com/audible/chapter/Aesop_for_Children/80_THE_GOOSE_AND_THE_GOLDEN_EGG>

## 2016 [Cluster Analysis] Integrated Clustering Analysis System (ICAS)

This is my MSc dissertation.

This system pre-processes the raw biological data, making them available for clustering, then applies different data dimensionality reduction algorithms and clustering algorithms. It clusters data not only by numerical features but also by distance matrices.

ICAS is an open framework, any clustering algorithms can be added.

**The final mark was 78**.

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| Role | Only Developer |
| IDE | Visual Studio 2015, R-Studio |
| Data mining tools and packages | SPSS Modeler 15, Scikit-Learn(Python), CLUE(R Package) |
| Data Mining Algorithms | PCA, feature selection, clustering, k-means, mean-shift, k-medoids, hierarchical clustering, ensemble clustering |
| Biology tools | ViennaRNA, RsRobot, Targetfinder |
| String Searching Algorithms | Local alignment, Global alignment, Boyer-Moore algorithm, pigeonhole principle, k-mer. |
| Version Control(Github) | <https://github.com/juwikuang/Dissertation>  The dissertation code and paper. |

# Working experience

## 2020 – NOW Statestreet

## 2019 Eastcom

## 2017 – 2018 Sunyard, Hangzhou

Algorithm Engineer. Knowledge Graph R&D.

## 2016 John Innes Centre, UK

The John Innes Centre is an independent, international centre of excellence in plant science and microbiology. I was a developer, doing data preprocessing and machine learning.

## 2012 – 2015 Infosys, China

Infosys is a famous Indian IT company. I was a team leader.

## 2008 – 2012 State Street, China

Well, you know.

I worked in PMO and PAM China. I was in charge of the PAM China Data Integration team.

# Certificates

**IELTS 7.0**

**Google Tensorflow**

**MCPD Pro: .NET 4.0**