

# Yin Daheng

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## Education

### Jiangnan University

Internet of Things  
2016.09~2020.09

### Cambridge University

Summer School  
Global Innovation and  
Leadership  
2017.08~2017.09

## Links

WebSite:[yindaheng98.top](http://yindaheng98.top)  
Github:[yindaheng98](https://github.com/yindaheng98)

## Skills

### Mathematic

(Course results, out of 100)

Linear Algebra	92
Further Mathematics I	96
Further Mathematics II	97
Probability&Statistics	98
Integral Transforms	100
Discrete Mathematics	94

### English

IELTS	6.5
CET6	576
CET4	543

### Programming

(Lines of code)

Python	8577
Latex	8036
matlab	7265
Java	6024
HTML	3758
Javascript	3474
PHP	2915
C#	1834

### Artificial Intelligence

Familiar  
Pytorch  
Knowledge  
Tensorflow • sklearn

### Cloud Computing

Familiar  
Docker • Docker-compose  
Knowledge  
Ubuntu Server

## Research & Development

### Mlpack migration on Sunway Platform

2019.04~currently | Jiangnan University/Software department, Sunway R&D Group

- Plays a role in kernels migration
- Current progress: Investigating and planning

### Develop new evaluation methods for over-hydration based on bioimpedance analysis and data mining

2018.12~currently | Jiangnan University/Department of Nephrology, Wuxi People's Hospital

- Aims to improve performance of BCM-based evaluation of over-hydration with data mining methods. Project plan:
  - Analyse patient's body composition data and improve BCM-based over-hydration evaluation with bioimpedance vector analysis
  - Predict the short-term health status of patients with new over-hydration evaluation method
  - Extend the prediction of the patient's health status to the end event period, providing a reference for the development of long-term treatment options
- Current progress: Gathering preliminary statistics results, preparing for first paper

## Projects

### ExpertField 2019.03~currently

- Aiming at field data collection, both artificial and automatic
- 9 cooperators, built a complete IoT system
- Will be deployed in Institute of Plant Physiology & Ecology, CAS
- A fast deployable combined microservice system based on Docker and YAML parser

### GANomaly-Tensorflow 2018.10~2018.11

- Implement GANomaly with Tensorflow, for camera abnormality judgment
- Use Opencv and Tensorflow to convert video format to tfrecord dataset

### Calendars 2017.10~2017.12

- A cross-platform web application that integrates daily affairs, curriculum, achievement management, and project planning
- 5 cooperators, 4000 lines of code
- Implemented multi-person instant process graph editing and a high-flow curriculum query component using Redis blocking queue and long polling

## Awards

2019.05	National Outsourcing Innovation Competition	3rd Prize
2019.04	COMAP's Mathematical Contest in Modeling	S Prize
2018.11	Jiangnan University Academic Scholarship(2016-2017)	1st Prize
2018.09	National College Mathematical Contest in Modeling	2nd Prize(National)
2017.11	9th National College Mathematical Contest	2nd Prize(Provincial)
2017.11	National Scholarship(2016-2017)	
2017.05	14th Jiangsu College Mathematical Contest	1st Prize
2017.03	Admitted by the Honor School, Jiangnan University	

## Personal Statement

### Research interest

- Theoretical: Machine Learning Algorithm, Brain inspired Computing
- Application: Mining on medical data, Cloud computing in IoT System

### Personal qualities

- After two mathematical contests and two mathematical contests in modeling, I have a good mathematical abstraction and modeling ability
- After 30,000 lines of coding, I have good coding and architecture ability