

# CHANG LUO

✉ luochang212@gmail.com · ☎ (+44) 07902068771 · in bupt-luochang

## 🎓 EDUCATION

---

**University of Sheffield**, Sheffield, United Kingdom 2018 – 2019

*Master student* in MSc Advanced computer science

**Beijing University of Posts and Telecommunications**, Beijing, China 2014 – 2018

*B.S.* in Information and Computing Science

## 👥 EXPERIENCE

---

**Team software project** Mar. 2019 – May. 2019

Postgraduate course (Python)

Our team developed a module delivery software within three months. The main functionality of this software is to validate and visualize the module information automatically. Specifically, the version control of this project is powered by GitLab. The user interface is built with PyQt5. NumPy and SeaBorn are used to validate and visualize module data. I made contributions to both front end and back end and wrote over 1000 lines of code.

**Train neural network with TensorFlow** Sept. 2018 – Nov. 2018

Assignment of Machine Learning (Python)

The object of this assignment is to help us get familiar with TensorFlow and scikit-learn. Specifically, MNIST dataset is used to train this neural network in this assignment. The main steps of the training process are as follow: 1. Use Principal Component Analysis to turn images into feature vectors 2. Classify these images with k-means clustering.

**Beijing Cheyi Network Technology Inc.** Beijing, China Apr. 2018 – Jun. 2018

Summer Intern

Served in Strategic Development Department. Mainly responsible for analyzing business data. And shared my work with boss and colleagues via report and PPT. Also participated in the formulation of sales plan.

**Research on portfolio optimization problem based on ant colony optimization algorithm**

Dissertation Project (MATLAB) Apr. 2018 – May. 2018

It is an NP-Problem to calculate the efficient frontier of the Markowitz mean-variance model. Therefore, this paper try to find the approximate solution with a kind of ant colony algorithm which is applicable to solve continuous function with multiple variables. By adjusting the local and global optimization strategies, the approximate solution can quickly converge to the effective frontier curve with high precision. Finally, this paper scored 90 points.

## ♥ HONORS AND AWARDS

---

*3<sup>rd</sup> Prize*, University Scholarship 2015

*1<sup>st</sup> Prize*, School Mathematics Competition 2012

*1<sup>st</sup> Prize*, Calligraphy Competition of Sha county 2007

## ⚙️ SKILLS

---

- Programming Languages: Python > Java == MATLAB > JavaScript == C
- Foundations of mathematics: Mathematical Analysis, Abstract algebra, Probability Theory, Stochastic Process, Operations Research, Information Theory, Data Analysis, Numerical Analysis, Modern Cryptography
- Softwares: SPSS, Excel, PowerPoint, L<sup>A</sup>T<sub>E</sub>X, Pd-extended, Access
- Blog: <https://luochang212.github.io>