

# CHANG Ruiqing

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## EDUCATION

Polytech Nice Sophia, Engineer's degree (Master of Science)

- Applied Mathematics and Modeling (Data Science), Sept. 2016 - present(Bac +4)

China University of Petroleum, Bachelor of Science

- Mathematics and Applied Mathematics, Sept. 2012 - July 2016

## SKILLS

Coding: Python / R / Scilab / SQL / C++ / Java / Shell / MATLAB / LaTeX / UML

Libraries: NumPy / pandas / scikit-learn / TensorFlow / TTR / OpenCV / OpenGL / JavaFX

## EXPERIENCE

**Data Analyst Intern**, July - Sept. 2018 Python / R / SQL

Bayes Data Intelligence Tech Service Inc., China

- Real estate price forecasting models. Smart shopping cart recommender system research.

NumPy / pandas / matplotlib / sklearn / TensorFlow / TTR / XGBoost / pgSQL

**Recommender System Research**, June 2018 - Jan. 2019 Python / SQL / Shell

Shenduxinxi Co. (Venture Project), telework

- Crawled the required information on forum pages and WeChat Mini Programs. Created a website database based on file attributes and directory structure. Server file management, format conversion. NLP analysis on the files printed by the user to determine the theme tag.

Requests / BeautifulSoup / MySQL / win32com / threading / multiprocessing / re / textract / jieba / synonyms  
/ pandas / sklearn

**Ad Serving Algorithm Project**, May - June 2018 Python / LaTeX

Oui!Greens Co., Nice

- Implemented greedy algorithm, Hungarian algorithm and HWM algorithm to solve the optimization problem of bipartite graph under KKT conditions.

NumPy / SciPy / matplotlib

**Java Development Intern**, July - Aug. 2015

Neusoft Corp., China

## PROJECTS

### Car Sales Analysis, Mar. 2019 R

- Implemented SMA, simple exponential smoothing and Holt-Winters algorithm manually, analyzed and predicted time series data. TTR

### Partial Differential Equation, Jan. 2019 Scilab / LaTeX

- Implemented explicit and implicit Euler scheme for the equation of heat.

### Spectral Clustering, Dec. 2018 Python

- Implemented the algorithm for bi-partition problems. NumPy / NetworkX / sklearn

### Integer Linear Programming, Nov. 2018 Python

- Implemented Branch-and Bound algorithm. NumPy / matplotlib

### Image Blurring, Oct. 2018 C++

- Implemented Shepard interpolation algorithm in Delaunay triangulation and compile it on multiple platforms. CMake

### Cryptographic Currency Price Analysis, Feb. - May 2018 R

- Data mining and simulated user analytics profit. ggplot2 / gridExtra / reshape2 / quantmod

### Concept Visualization, Jan. 2018 Python

- Calculated Google's similar distance between untestable concepts, visualization by using t-SNE to reduce dimensionality. Requests / BeautifulSoup / NumPy / matplotlib / sklearn

### Gesture Recognition, Sept. - Dec. 2017 C++

- Realized face tracking and established supervised learning models(k-NN / AdaBoost / MLP) for gesture recognition. OpenCV

### Nutrition Classification, June 2017 Scilab / LaTeX, K-means

### Predator Model Development, Apr. - May 2017 JavaFX, GUI

## LINKS

GitHub://[changrq](#) | LinkedIn://[crq](#) | [Online resume](#)