

Kuiyu (Carlos) Zhu

Tel: +86 13616693910 | Email: carloszhu12@gmail.com

EDUCATION

Georgetown University

M.S. in **Analytics** (with a concentration in **Data Science**), GPA: **3.80** / 4.00

Washington, D.C.

Aug 2019 – May 2021

University of Iowa

B.S. in **Mathematics**, Major GPA: **3.57** / 4.00

Iowa City, IA

Aug 2014 – Dec 2018

Honor: Dean's List (2017)

SKILLS SET

3 years experience in Data mining, Machine learning, Statistical analysis & Data Visualization with **Python**, **R** and **Julia**

Other Applications: **SQL**, **Tableau**, LaTeX, Microsoft Office, AWS(ec2, emr, s3, rds), Hadoop, Spark

Communication: Mandarin Chinese (native), English (fluency), Korean (basic).

WORKING EXPERIENCES

General Electric (GE), Shanghai | Digital Tech Leadership Program Internship

Jan 2021 – April 2021

- ◆ Product Management — internal translation tool
 1. Collect translation requirement (translating technical terms) of engineers, staffs from non-native English speaking countries
 2. Coordinate outsourced developer to accomplish major development goals (images, pdf files translation) as custom terminology dictionary embedded
- ◆ Business data analytics — CoE Dashboard (with the application in supply chain management)
 1. Learn the business processes of the supply chain team, understand their needs in visualizing & tracking core metrics
 2. Data ETL via database language (PostgreSQL) and develop CoE Dashboard via Tableau
 3. This project is being nominated as champion lean initiative globally in 2021 inside the company

University of Iowa | Undergraduate Research Assistant

Jan 2018 – May 2018

- ◆ Topic & Advisor: Topological Data Analysis (TDA) and Mapper Algorithm, Dr. Isabel Darcy, Dept of Mathematics
 1. Learning the basics of Topology and TDA Mapper Algorithm & Assisting advisor in cleaning the high dimensional data with R
 2. Group project based on self-collected sports data with the application in sports team salary management

COURSE PROJECTS (SELECTED)

Prediction of Concrete Compressive Strength Using Artificial Neural Network [MATLAB]

Sep 2018 – Dec 2018

1. Based on MATLAB Toolbox, I and a civil engineering Phd student developed an Artificial Neural Network regression model to predict concrete compressive strength based on experimental data
2. The model we had developed provides a practical solution for balancing the concrete strength (actual demand) and the cost in the construction industry

Media Influence on NBA Players Performance (performance analysis part) [Python]

Sep 2019 – Dec 2019

1. Project Website: <http://douglaspost.georgetown.domains/finalproject501/>
2. As a member of the four-person project group, I am responsible for the players' performance analysis, my work is as the following
3. Web scraping the statistical data of all the players for last 10 NBA seasons, data preprocessing, exploratory data analysis, developing classification models to predict the change of their performance, clustering methods, visualization (Python and Tableau), public speaking

Other projects I was involved in which may interest you:

1. Model Comparison For Discrimination on Country of Origin

Poster Link: https://github.com/A1rbag/for_resume/blob/main/561_poster_final.pdf

2. Four or Nine? Handwritten Digit Recognition with High Dimensional Analysis

Poster Link: https://github.com/A1rbag/for_resume/blob/main/565%20Project%20Poster.pdf

3. Used Car Price Prediction

Website with the Python and R code: https://a1rbag.github.io/ANLY503_Portfolio/503p.html