

Tianran ZHANG

<http://creatran.github.io/>

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EDUCATION

Cornell University, New York, NY

Sep 2019 – Present

M.S. in Data Science & Biostatistics

GPA: 3.99

Fudan University, Shanghai, China

Aug 2015 – Jul 2019

B.S. in Mathematics (Data Science)

School of Data Science

School of Mathematical Science

WORK EXPERIENCE

Quantitative Investment Department at ZHONG OU AMC | Research Assistant

Jul 2018 – Oct 2018

Superior: Weiwei Song, Investment Manager

- Analyzed the data derived from online database (WRDS) to compare the affection of different factors on market share of 1480 fund companies under different strategies both in America and China.
- The data wrangling was done by Python; OLS and FGLS regressions on panel data was used by STATA.

RESEARCH EXPERIENCE

Design and Implement “SCR” R package | Co-Founder & Team leader

Feb 2020 - Present

Advisor: Kathy (Xi) Zhou, Weill Cornell Medicine

- Designed and implemented most of “SCR” R package; allocated work to team members and did the follow-up maintenance of this package.
- This package serves as an associate tool to help students check their self-implemented R codes outcome as well as get a deep understanding to the book “Statistical Computing with R”.
- The “SCR” package can be found and downloaded from my GitHub via this link: <https://github.com/Creatran/SCR>

Environmental Impact Calculator Shiny App

Oct 2019

Advisor: Prof. Sweeney, Weill Cornell Medicine

- Designed a shiny app for Happy Valley Meat Company to calculate the environmental impact for each cut of meat. Drew bar plots and word cloud plot to visualize the environment impact with the help of R packages ‘ggplot’, ‘ggplotly’, and ‘wordcloud’.
- Leaded and collaborated with my teammates on App design. Mainly in charge of coding part of both UI and Server.
- The shiny.io website can be reached here: https://tianran.shinyapps.io/midterm_project/

3D Free-Form Deformation using VTK

Jun 2018 – Sep 2018

Advisor: Xiahai Zhuang, Fudan University

- Transformed real-world object’s position and shape to present a 3D shape reconstruction.
- Performed free-form deformations for the 3D Object based on VTK on Python.
- Collaborated with team members to solve the problems that came across during the project and used matrix calculation to speed up the programming procedure by 5 times.

TECHNICAL SKILLS

Programming	R, LaTeX, SQL, MATLAB, Stata, Python (Including ML techniques such as K-means, PCA, and KNN),
Statistics	Regressions, Survival analysis, ANOVA, Hypothesis test, Model selection.
Study Design	Clinical trials, observational study, and related applications.

AWARDS

• Third Prize in the National Collegiate Modeling Contest	2018
• Fudan University Major Scholarship	2018, 2017, 2016
• 1st Prize in the National Olympiad in Mathematics	2015
• 1st Prize in the National Olympiad in Informatics	2015