

Junwei Chen

EDUCATION BACKGROUND

Rice University 08/2021 - present

Master of Electrical and Computer Engineering (Expected graduation time: December 2022)

- GPA: 3.83/4
- Core course: Introduction to Machine Learning, R for Data Science, Embedded Machine Learning Database Implementation, Data Science Project, Information Theory

Nanjing University of Posts and Telecommunications 09/2017 - 06.2021

Bachelor of Electronics and Communication Engineering

- GPA: 3.92/5 (top 6%)
- Core courses: Data Structure, Control Systems, Fundamental of Digital Logic, Microprocessors(MSP430), Random Signals and Statistics, Electronic Circuit Application

RESEARCH EXPERIENCES

Rice course projects: 09/2021 - present

- **Analysis of Chicago Crime during 2009-2019 (finished)**
 - Led a team of 5 students
 - Conducted data wrangling and visualization by R and SQLite
 - Built an interactive dashboard by R shiny
 - Implemented time series forecasting
- **A Raspberry Pi Video Processing for Sample Solution Based on YOLOV5 (finished)**
 - Tuned hyperparameters including skip_frame and scale
 - Modified the output data set to make it fit in the final scoring system
- **Lone Star College Project (ongoing)**
 - Conducted data wrangling and exploration by Python
 - Building an interactive dashboard by Python

National College Students' Innovation and Entrepreneurship Training Program 04/2019 - 05/2020

- **Study on Nonlinear Analysis of MEG in Patients with Brain Disease** Supervisor: Wang Jun
 - Did data wrangling and visualization by Matlab
 - Implemented several entropy algorithms by Matlab

Publication: Zhang, Y., Zhang, Yu., **Chen, J.**, Yan, W., Yuan, Z., Wang, J. (2020). Study on nonlinear analysis of MEG in patients with brain disease. *J. Phys.: Conf. Ser.* **1592** 012037.

INTERNSHIPS

- **Web Developer at Sinotrans Container Lines Co., Ltd(Sinolines)** 07/2020
 - Built a web page registration system by C#
 - Managed the database by SQL server

HONORS & REWARDS

- NJUPT Merit Student Scholarship of College of Overseas Education (5%) 2018 - 2019
- Honorable Mention in 2020 Interdisciplinary Contest in Modeling(24.3%) 03/2020
- Excellent Award in 2019 NJUPT Science and Technology Innovation Training Program 06/2020

TECHNICAL SKILLS

Good at R, python especially in data wrangling and visualization; Familiar with MySQL, Java, C#, Matlab and VHDL. Have basic knowledge in SPSS and Tableau