Yiqi Xiong

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SUMMARY

· Self-motivated in data science, open-minded listener with good communication, fast leaner, effective group worker
· Advanced in Python, R, Minitab, ArcGIS Pro; Familiar with html5, MATLAB, Mathematica, LaTex
· Fluent in Chinese (native) and English; Intermediate in Korean(spoken)

EDUCATION

The Pennsylvania State University   University Park, PA
B.S. in Mathematics | Statistics and Geography Minor   Aug.2017 – Dec. 2020
- Courses: Linear Algebra, Deep Learning, Regression Analysis, Geographic Information Science   GPA: 3.90/4.00

RESEARCH EXPERIENCE

Traffic Speed Prediction in NYC
Research Project | Supervised by Dr. Manzhu Yu, Department of Geography   Jan. – May.2020
- Literature review over 200 research papers
- Collected and processed 10 million real-time traffic data; Visualized geospatial sensor data in the map
- Performed deep learning model with IoT sensors in Python

Virtual Reality in Gaming   Aug.2020 – Present
Research Assistant | Research led by Jiawei Huang, Department of Geography
- Helped design the VR experiment questionnaire; Collected the experiment results

SELECTED PROJECTS

Imagine Classification for MNIST   July. 2019
- Learned basic machine learning algorithms
- Built deep learning models like DNN, CNN, ResNet, and Muliti-grid using PyTorch

Prediction: Wine Quality and Housing Price   Mar. – May 2020
- Worked in regression analysis; Built different model and validate them in R

TUTORING EXPERIENCE

Grader for MATH 220 - Matrixes, instructed by *Dr. Dmitri Burago*   Spring 2020
Peer Tutor for AP Calculus BC   Spring 2017

WORK EXPERIENCE

TestDaily   Beijing, China
Writer and Editor   Feb. 2017-Nov. 2019
- Written over 50 articles that mainly focused on geography and culture for 11 thousand Chinese students who are interested in studying abroad (over 6 articles received more than 8,000 viewers)
- Summarized application information (essay topic, deadline, supplementary, and historical admitted records)
- Provided advice on academic and living environment for upcoming international student

EXTRACURRICULAR

Eberly College of Science Mentoring Program   University Park, PA
Trained Peer Mentor   Mar. 2020 – Present
- Supported matched mentees and address their academic and nonacademic questions
- Given useful suggestion from personal experience to provide them idea regarding their concerns

Easterly Parkway Elementary   State College, PA
Volunteering Teacher   Feb. – Mar. 2020
- Organized 30 students in art design class; Answered questions in elementary math at the after-school program

Penn Chinese Dance Club   Philadelphia, PA
Member   Jan. – May, 2019
- Joined the 2-hours weekly practice
- Performed and choreographed one piece of Chinese Classical dance

Penn State Abington Dance Company Penn   Abington, PA
Member   Jan. 2018 – May, 2019
- Attended basic dance training for 6 hours a week
- Choreographed five pieces of dance focused on modern dance
- Shared Chinese Dance culture with more than 50 people in the class.
- Assisted backstage during the dance show every semester.