

Yiqi Xiong

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EDUCATION

The Pennsylvania State University

B.S. in Mathematics | Statistics and Geography Minors

- Related Courses: Linear Algebra, Deep Learning, Regression Analysis, Geographic Information Science

University Park, PA

Expected Graduation: Dec 2020

GPA: 3.90/4.00

SKILLS

- Advanced in Python, R, Minitab, ArcGIS Pro; Familiar with HTML5, MATLAB, Mathematica, LaTeX
- Fluent in Chinese (native) and English; Intermediate in Korean (spoken)

ACADEMIC RESEARCH

Virtual Reality in Gaming

Undergraduate Research Assistant | Research led by Jiawei Huang, PSU Department of Geography

Aug 2020 – Present

- Design the VR experiment questionnaire with a team of 3 on Amazon Mechanical Turk
- Test experiment and collect the experiment results from 2 participants
- Analyze numerical emotion data from pre and post experiment
- Self-learn NLP to analyze interview texts

Traffic Speed Prediction in NYC

Undergraduate Research Project | Supervised by Dr. Manzhu Yu, PSU Department of Geography

Jan – May 2020

- Reviewed over 200 research papers
- Collected and processed 10 million real-time traffic data
- Visualized 137 geospatial sensors in ArcGIS Online
- Performed deep learning model with IoT sensors in Python

SELECTED PSU COURSE PROJECTS

Image Classification for MNIST

Jul 2020

- Studied basic machine learning algorithms
- Built deep learning models like DNN, CNN, ResNet, and Multi-grid using PyTorch

Prediction: Wine Quality and Housing Price

Mar – May 2020

- Worked in regression and ANOVA analysis
- Created different models and validated them in R

RELATED WORK EXPERIENCE

Department of Mathematics

University Park, PA

Grader

Jan – May 2020

- Graded weekly homework and quizzes and prepare solutions for 45 students in MATH 220 - Matrixes
- Responded course-related questions
- Provided summary feedbacks to both students and professor in time

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 topics, deadlines, supplementary, and historical admitted records)
- Provided advice on the academic and living environment for upcoming international students

EXTRACURRICULAR

Eberly College of Science Mentoring Program

University Park, PA

Trained Peer Mentor

Mar 2020 – Present

- Support 3 matched mentees and address their academic and nonacademic questions
- Give useful suggestions from personal experience to provide them ideas regarding their concerns

Easterly Parkway Elementary

State College, PA

Volunteering Teacher

Feb – Mar 2020

- Certified in Mandated Reporter training
- Listened to students' personal stories and supervised their safety
- Organized 30 students in art design class; Answered questions in elementary math at the after-school program

Penn State Abington Dance Company

Abington, PA

Member

Jan 2018 – May 2019

- Attended basic dance training for 6 hours a week
- Choreographed 5 pieces of dance focused on modern dance
- Combined Chinese dance and modern dance concepts together in final stage performance
- Assisted backstage during the dance show every semester