Youran Pan

No. 8 Duke Avenue, Kunshan, Jiangsu, China 215316

+86 199 0614 1121   xzpw86@outlook.com

EDUCATION

Duke University   **North Carolina, USA**
Undergraduate's Degree in Applied Mathematics and Computational Sciences/Math   Expected: May 2022

Duke Kunshan University   **Kunshan, China**
Undergraduate's Degree in Applied Mathematics and Computational Sciences/Math   Expected: May 2022
- Courses: Applied Mathematics Major GPA 3.75/4.0
- Grades: GRE 170 (99 Percentile) + 170 (96 Percentile) + 4 (55 Percentile)
- Honors: Honorable Mention prize in 2021 Mathematical Contest in Modeling, First prize of undergraduate group in 2020 Mathorcup Mathematical Modeling Challenge (5% national level), Successful Participant prize in 2020 Mathematical Contest in Modeling

Xuzhou NO. 1 Middle School   **Xuzhou, China**
High School Graduated   June 2018
- Grades: Top 4% of the grade (1,200)
- Honors: 2016 Outstanding Member of Xuzhou Communist Youth League (1%)
- Awards: 2nd prize of the 31st China Chemical Olympiad (Jiangsu Division), 2nd prize of the 31st China Mathematical, Olympiad (Jiangsu Division), 2nd prize of the 31st China Biological Olympiad (Jiangsu Division)

RESEARCH EXPERIENCES

Duke Kunshan University   **Kunshan, China**
Research Assistant, Data Science Research Center   Dec 2020 – Present
- Proficiently use Python to write web crawler to crawl first-hand data of translated books, clean up the crawled data, conduct basic data analysis, draw charts and report to the Data Science Research Center regularly
- Cooperating with Shanghai Library to sort out and merge existing data to the database which currently has 5,416 pieces of data
- As the principal data processor, writing the data processing introduction part for the research paper that is being written

Summer Research Scholars program member, Duke Kunshan University   May 2021 – Aug 2021
- Routinely conducted literature review on healthy lifestyle and childhood cancer
- Collaboratively accessed to Yinzhou, China, databases and calculated vaccine effectiveness by decision tree model
- Constantly been following the writing of the research paper

Research Assistant, Division of Social Sciences   Sep 2020 – Dec 2020
- Proficiently used Python to clean and classify first-hand patent data
- Analyzed according to the figures and charts output by Python, wrote the analysis report using a combination of qualitative and quantitative methods, presented the results to the Division of Social Sciences Office regularly
- Successfully replicated and improved algorithm using cos distance to accurately identify and match missing strings

Mechanisms and Path Analyses for Health Management among Chronic Diseases Patients in Urban China (CEBA)   Aug 2019
- Funded by the Natural Science Foundation of China, support by the Global Health Research Center (GHRC) of Duke Kunshan University
- Conducted face-to-face questionnaires, interviews, and body measurements with residents in Kunshan and Taicang
- Conducted the community evaluation and propose suggestions to improve community non-communicable disease control strategies

Peking University   **Beijing, China**
China Health and Retirement Longitudinal Study, CHARLS   July 2020 – Aug 2020
- Hosted by the National Institute of Development of Peking University, Executed by the Chinese Social Science Survey Center of Peking University and the Youth League Committee of Peking University
- Served as the team leader in the 2020 CHARLS project, and led 7 team members to conduct face-to-face questionnaire survey, interview and body measurement for residents of more than 200 households in 6 villages in Jiangsu and Shandong provinces, China
- Completed the preliminary cleaning and analysis of the 2018 CHARLS data by Stata

China University of Ming & Technology   **Xuzhou, China**
Research Assistant, Department of Computer Science and Technology   May 2021 – Aug 2021
- Constantly engaged in literature review on social network analysis, specifically in recommender systems
- Attentively reviewed all the latest literatures about recommender systems within a week and took parts in various experiments on different systems
- Regularly attended laboratory weekly seminar
- Actively participated in the writing of research paper which is prepared to submit for publication in *Pattern Recognition*

PUBLICATION AND IN PROGRESS

In Progress
- ZX. Zhang, YH. Chai, CC. Sun, XB. Rui, H.M, YR. Pan, XY. Zhang (2021). A weighted symmetric graph embedding approach for link prediction in undirected graphs. Prepared submitted to Pattern Recognition, funded by NSFC (National Natural Science Foundation of China).

EXTRACURRICULAR ACTIVITIES

Wat Pho Baan Oye School   **Bangkok, Thailand**
English Volunteer Teacher   August 2019, Two weeks
- Successfully taught the basic English alphabet, 1-100 numbers, simple verbs, nouns and auxiliary verbs to 648 students in 12 classes in the second and third grades of Wat Pho Baan Oye School by singing, painting, lead reading, gaming and other forms

Chengdu Research Base of Giant Panda Breeding   **Chengdu, China**
Panda volunteer   2019, Two weeks
- Daily cleaned panda dormitories, feed panda, learn and record panda behavior in the wild
- Learnt to make special nutrition steamed bread for panda
- Visited the panda breeding historical information museum to learn about the difficulties of panda breeding

Duke Kunshan University   **Kunshan, China**
Vice President of basketball club   2018 - 2019
- Quarterly organized activities and competitions
- Actively coordinated club operations, including equipment arrangement, coach coordination, outreach competition, etc

ADDITIONAL INFORMATION

- Computer Skills: Microsoft Office, LaTeX, Python (experienced), Matlab, Julia, R, Stata (basic)
- Languages: Chinese Mandarin (native), English (business), Japanese (fluent)