Xiaoyu Sun

Email: xiaoyu.sun@rutgers.edu

Education

B.S. in Computer Science September 2018 - Present
Rutgers, The State University of New Jersey – New Brunswick, New jersey
Cumulative GPA: 3.82/4.00
Major GPA: 3.95/4.00

Teaching Experience

Recitation Instructor September 2020 - Present
Office for Diversity and Academic Success in the Sciences, Rutgers University

- Fall 2020 - General Physics II
  - Topics include: Electricity, Electric Circuits, Electromagnetism, Optics, Special Relativity, and Radioactivity.
  - Recorded recitation video per week explain homework questions.
  - Held three hours review session weekly for 30+ students
  - Held two hours office hour per week

Research Experience

Research Assistant September 2020 - Present
Department of Civil and Environmental Engineering, Rutgers University

- Assistant to Professor Xiang Liu, conducted research on the topic of "Artificial Intelligence for Next-Generation Intelligent Transportation Systems"
- Applied logistic regression model to help address the inefficiency of the process of inspection in port.

Professional Experience

Junior Founder September 2019 - September 2020
Rutgers Undergraduate Research Journal

- Found the university-wide undergraduate research journal
- Designed a course of peer review in research for new members to familiar with the review process
- Worked with a team of 13 fellow junior founders to form the syllabus for the course we provided
- Reviewed papers in different fields as a reviewer
- Assisted professors to review and given reports to authors with suggestions

Projects

Fast Trajectory Replanning Summer 2020
Rutgers University

- Implemented path planning with Python. Using several modified A* algorithm to find the shortest path for the agent moves to the goal, in an unknown environment with randomly generalized obstacles.

Face and Digit Classification Summer 2020
Rutgers University

- Designed two classifiers: a naive Bayes classifier, a perceptron classifier, to do digit recognition and face detection. For digits recognition, both classifiers have accuracy above 60%; For face detection, both classifiers have accuracy above 70%.

Face and Digit Classification Spring 2020
Rutgers University

- blabla

Face and Digit Classification Spring 2020
Rutgers University

- blabla

Face and Digit Classification Spring 2020
Rutgers University

- blabla

Technical Skills

Programming Language: Python, Java, C, mySQL

Framework: Pytorch

Markup: LaTex, Markdown