

YATING FANG

(765) 479-5006 • yating.fang2@gmail.com
513 A Raritan Ave • Highland Park, NJ 08904

EDUCATION

Rutgers University , New Brunswick, NJ Ph.D. in Industrial and Systems Engineering	August 2020 – May 2024
The Ohio State University , Columbus, OH Master of Science in Integrated System Engineering	May 2020
Purdue University , West Lafayette, IN Bachelor of Science in Industrial Engineering	May 2018

TECHNICAL SKILLS

- MATLAB, R, Python, C, C++, Java, HTML, and SQL August 2014 - Present
- Arena, Excel Macro, and Simio May 2017 – May 2020

MACHINE LEARNING / DATA ANALYSIS PROJECTS

Disease Detection via Raman Spectroscopy , Rutgers University	September 2021 - Present
<ul style="list-style-type: none">• Performed analysis on real-world DNA data obtained via Raman Spectroscopy• Constructed a statistical test and implemented in Python to achieve detection of disease	
Federated Learning in Renewable Energy , Rutgers University	December 2020 - September 2021
<ul style="list-style-type: none">• Pre-processed real-world data such as environmental variables and solar panel images• Trained on data recurrent and convolutional neural networks using PyTorch and TensorFlow• Leveraged the results to perform data analysis and to confirm the pre-set hypothesis	
Generalization in Neural Networks , Rutgers University	September 2021 - December 2021
<ul style="list-style-type: none">• Designed and implemented an experiment to test Neural Network's generalization performance	
Logistics Solutions in Disaster Situations , Purdue University	August 2017 - December 2017
<ul style="list-style-type: none">• Designed an interactive website that takes user inputs to create a MySQL database• Constructed a heuristic algorithm and implemented the calculation using Java and C	
Warehouse Layout and Cycle Time , TVS Motor Company	May 2017 - June 2017
<ul style="list-style-type: none">• Performed a time study on the current logistic process to identify bottlenecks• Proposed a dynamic framework that outputs optimal solutions given up-to-date real-world data	

SELECT RELEVANT COURSEWORK

- Data Mining and Machine Learning September 2021 – December 2021
- Data Mining II September 2021 – December 2021
- Simulation for System Analytics and Decision-Making January 2019 – May 2019

TEACHING / MENTORING EXPERIENCE

Industrial and Systems Engineering Department, Rutgers

- Graduate Teaching Assistant* August 2021 - Present
- Collaborated with learning assistants and led three MATLAB recitation sessions each week
 - Assisted Professor in grading quizzes and projects and held office hours to answer questions

Integrated System Engineering Department, Ohio State

- Graduate Teaching Assistant* August 2019 - December 2019
- Led two simulation lab sessions each week for 60 students to learn about Arena
 - Produced presentation and review materials and prepared practice problems and their solutions