

Yiming Yao

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EDUCATION

- Master of Science in Computer Science** Expected Graduation December 2022
University of Minnesota-Twin Cities, College of Science & Engineering,
Minneapolis, MN | Adviser: Stephen J. Guy
GPA 3.594
- Bachelor of Science in Computer Science** May 2021
University of Minnesota-Twin Cities, College of Science & Engineering,
Minneapolis, MN
GPA 3.612
- Associate of Science in Computer Information Science**
Associate of Science in Mathematics May 2019
College of San Mateo
San Mateo, CA
GPA 3.341

SKILLS

Programming Languages: C, C++, C#, Java, Python, HTML, NodeJS, JavaScript
Tools: Android Studio, Unity, Github, Gradle, VisualVM, LaTeX
Software: Microsoft Office, PyCharm, MATLAB, Eclipse IDE, Visual Studio, IntelliJ, R Studio
Operating Systems: Windows, Mac OS, Linux

PROJECT

- Mathematical Measures to Estimate Partisan Gerrymandering** March 2022 – May 2022
Csci 8715: Spatial Data Science Research, University of Minnesota-Twin Cities
- Formally define six mathematical measurements to estimate partisan gerrymandering
 - Perform the computation for various maps in Minnesota to quantify partisan gerrymandering
 - Analyzing the mathematical behaviors in estimating partisan gerrymandering
 - Validate the effectiveness and accuracy in the experiment
- Job Fair in Visual Reality** October 2021 - December 2021
- Implementing user interface to simulate in-person job fair in Unity
 - Using Ray casting to select a target location (locomotion technique)
 - Using triangle metaphors to change the yaw of selected object to handle difficult operation
 - Using indirect proxy technique to scale the entire scene down and bring within user's reach with a miniature handled model.
- Route Planning Software** Summer 2020
- Finding the optimal path on the University of Minnesota map by using A* algorithm
 - Implement user interface to visualize the path on the map, which contains the transient nodes
 - Analyzing accuracy about the solution by comparing theoretical optimal path, which given by our software and actual path on the map

- The source code and analysis report are available on Github:
<https://github.com/yimingyao-lab/Route-Planing-Software>

EXPERIENCE Summer Intern

IDG Capital, Beijing, China

June 2019 – August 2019

- Guiding the data of NEVs batteries energy density into statistical model and predicting their efficiency and life
- Engaging and summarizing the information and data of ADAS and algorithms to build the database
- Designing web crawler in python to catch to the NIO stock information in NASDAQ and analyzing the analyzing the NIO stock price in next five years
- Worked closely with the department director to strategize and implement operations related to market research

LANGUAGE English (SVIEP Level 4), Chinese (Native Language)

AWARDS

University of Minnesota, College of Science & Engineering, Dean's List
College of San Mateo, Cum Laude Honor

Spring & Fall 2021
2017 – 2019