# Yutong Wu

## yw180@rice.com in yutong-wu-b402191b9 | 🕡 wyt-yutongwu

#### **EDUCATION**

 Rice University August 2023 - Present Houston, TX

Computer Science Ph.D. o GPA: 3.91/4.00

Focus on Graph Machine Learning and the Intersection with Social Science

## Rochester Institute of Technology

August 2019 - May 2023

Rochester, NY

Computational Mathematics, B.S.

• GPA: 3.88/4.00

Minor: Computer Science

#### RESEARCH EXPERIENCE

• Large-scale Collective Dynamics in the Three Iterations of the Reddit r/place ExperimentMay 2023 - Present  $[\mathbf{O}]$ Data Analysis, Clustering, Graphs

- Submitted to WSDM'25
- Conducted a comprehensive characterization of the three iterations of the Reddit r/place experiment
- Studied user engagement, collaboration, and competition throughout the experiments at a large scale
- Clustered 16 million user updates in the 2017 experiment into attempted artworks over time by designing a dynamic clustering algorithm that combines user and visual features
- Discovered key factors of success in the experiment by comparing successful and failed artworks

## Analysis of the Non-Fungible Token(NFT) Market

March 2022 - May 2022

Data Analysis, Network Science

- Conducted data analysis on the NFT Market on the Internet with a focus on game NFT purchases
- Developed complex networks using over 2 million purchase data across multiple NFT platforms using Python
- Analyzed user's co-selling relationship using Power Law to discover the relationship between reselling purchases
- Designed and analyzed the relationship between users and game genres using community detection

## WORK EXPERIENCE

 Rice University August 2024 -Present Teaching Assistant Houston, TX

- Work as TA in COMP 614 Programming for Data Science in Fall 2024
- Facilitate in-class discussion sessions weekly by answering students' questions, hold weekly office hours

## Justice & Security Strategies [ ]

September 2022 - November 2022

Remote

Consultant Worked as a part-time contractor to analyze the turnout time of the vehicles of the Los Angeles Fire

- Department
- Took initiative in the project and performed data analysis using Python and Jupyter Notebook
- Produced evaluation results from the training data and compared the results with the testing data

### Anchorage Digital [\( \phi \)]

May 2022 - August 2022

Software Engineering Intern

Remote

- Worked in the Protocols team as a software engineering intern on implementing crypto assets into the ecosystem
- Scaffolded a tender mint-like blockchain using Ignite CLI that allows users to fund, transact, and check balances
- Configured and spun up the blockchain inside a Docker container using docker file and shell script

 $\circ$  Built features using Go and Protobuf to connect the blockchain and the services of the Anchorage ecosystem

• Tencent [ ( ) May 2021 - August 2021

Back-end Developer Intern

- Remote
- $_{\circ}$  Worked at the Nature Base (NBase) department on a communication app centered on group chats, mainly using Go
- Worked closely with the Big Data team to help better analyze user behaviors
- Improved the security of the app to prevent web crawlers from fetching private user data
- Built a whitelist feature for special experiences to certain users by working closely with the front-end team