

# Yixin Liu

Homepage: [csyixinliu.com](http://csyixinliu.com)

Github: [github.com/liuyixin-louis](https://github.com/liuyixin-louis)

Email: [yila22@lehigh.edu](mailto:yila22@lehigh.edu)

Mobile: +86-199-2752-2401

## EDUCATION

- South China University of Technology** Guangdong, China
  - BEng. - Software Engineering; GPA: 3.82/4.00; Ranking: Top4%;* *Sep 2018 - July 2022*
  - Courses: Principles of Compiler (98), Probability And Statistics (100), Calculus (97), Linear Algebra (94), Operating System (90), Artificial Intelligence (93), Algorithm Design and Analysis (91), Data Mining (91), Software design(91)*

## PROJECTS

- Pests in the Nest, Under Arrest: A Hornet Sighting Report Evaluation System:** I lead the team to design a hornet sighting report system based on ML method and the paper achieve *Finalist* in 2021 MCM. [PAPER, PROOF](Apr '21)
- Bert-based Legal Judgment Document Amount Entity Extraction Model:** Design a system based on BERT to conduct amount entity extraction.[COPYRIGHT, DEMO] (Nov '20)
- Covid-19 Prediction Model based on Huber Regression and Hierarchical Feature:** Design hierarchical classification feature coding scheme and design algorithm based on Huber Regression. We achieve championship in this race. [TALK, RESULT](Oct '20)

## PUBLICATION

- Conditional Automated Channel Pruning for Deep Neural Networks:** IEEE SPL. June 2021.
- Priority Prediction of Sighting Report Using Machine Learning Methods:** IEEE SEAI. April 2021.

## HONORS AND AWARDS

- Outstanding Undergraduate Thesis - June, 2022 [**12/271**≈**4%**]
- National Scholarship ×2 - 2021/2022 [**1/71**≈**1.4%**]
- Finalist* at 2021 American Mathematical Contest in Modeling - April, 2021 [**284/10061**≈**2.82%**]
- Provincial First Prize* at Contemporary Undergraduate Mathematical Contest in Modeling - Oct, 2020
- Provincial Second Prize* at National Mathematics Competition for College Students - Oct, 2020
- Champion* at the 6th China Health Information Processing Conference (Evaluation 4) - Nov, 2020.
- Runner-up* at National Undergraduate Software Practice and Innovation Ability Competition - Nov, 2020.
- SCUT Premium Scholarship - Sep, 2019.

## SKILLS/QUALIFICATION

- English:** CET-4(598) / CET-6(537) / TOEFL(83)
- Languages:** Python, C++, HTML, JS
- Frameworks:** Pytorch, Tensorflow, Flask, Keras, PARL, Huggingface
- Tools:** Docker, GIT, MySQL

## EXPERIENCE

- Contributing to Open Source RL Project: PARL** Remote
  - Contributor (Part-time)* *Mar 2022 - Apr 2022*
  - Upgrading the MADDPG module:** Adopting MADDPG algorithm to its discrete version.
  - Bug fixing of policy distribution module:** Fixing the log computation error of Diagonal Gaussian policy
- Tsinghua University(SZ): Ascend-ModelZoo** Remote
  - Research Intern (Part-time) Advised by Prof. Chun Yuan.* *June 2021 - Aug 2021*
  - Code reproduce:** Implement Circle Loss using TensorFlow and contribute to ascend modelzoo.

## ACADEMIC SERVICES

- KDD/ECCV/IJCAI (Sub)Reviewer, 2022