

(SHERILYN) SHIYIN WANG

Computer Science Undergraduate in Tsinghua Yao Class 2020

@ wangshiy16@mails.tsinghua.edu.cn
in linkedin.com/in/sherilynwang/

@ wangsysusan@icloud.com
github.com/shiyinw

📍 Beijing, China

🌐 www.mit.edu/~shiyinw

RESEARCH EXPERIENCE

Disentangle Private Information from Edge-Cloud Training

Advisor: Song Han, HanLab in Massachusetts Institute of Technology(MIT)

📅 Feb 2019 – May 2019

📍 MA, USA

- Designed a differential privacy guaranteed framework for edge-cloud training with theoretical proof
- Analyzed the trade-off between performance and privacy

Biological Network Analysis

Advisor: Russ B. Altman, Helix Group in Stanford University

📅 Jul 2019 – Aug 2019

📍 CA, USA

- Proposed to represent protein networks from a users' perspective
- Also worked on drug synergy prediction by few-shot learning

Complementary Learning for Named Entity Recognition

Advisor: Jiawei Han, Data Mining Group in University of Illinois at Urbana-Champaign(UIUC)

📅 July 2018 – Sep 2018

📍 IL, USA

- NER(named entity recognition) on biology domain
- Helped to improve the Set Search+ Oxygen demo for KDD 2018

Fast Top-k Area Topics Extraction with Knowledge Base

Advisor: Jie Tang, Data Engineering Group in Tsinghua University

📅 Jun 2017 – Sep 2017

📍 Beijing, China

- Proc. IEEE DSC 2018 (<https://arxiv.org/abs/1710.04822>)
- Crawled data from Wikipedia knowledge base
- Designed models to analyze the relationships between concepts
- Contributed by putting forward a method to solve inaccurate data source problem innovatively

PROJECT EXPERIENCE

Restaurant Management Application

Database Course Project in Tsinghua University

📅 Nov 2018 – Dec 2018

📍 Beijing, China

- Full-stack web application
- HTML/CSS + Python Flask + Oracle
- Solo Course Project

Werewolf Game Software

Object-Oriented Programming Course Project in Tsinghua University

📅 May 2017 – Jun 2017

📍 Beijing, China

- Werewolf is a popular table game
- Enable people to communicate online through TCP protocol
- Contributed to all the GUI part and some of the client logic part

EDUCATION

Special Student Program

Massachusetts Institute of Technology

📅 Feb 2019 – May 2019

Courses: 6.437 Inference and Information, 6.802 Comp. Bio., 6.045, 6.100

Overall GPA: 5.0/5.0 (48 units)

Bachelor in Computer Science

Tsinghua University

📅 August 2016 – July 2020

Yao Class (39 students advised by Turing Award Laureate Prof. Andrew Chi-Chih Yao)

Core Courses: Algo. Design, ML, AI, Numeric Ana., Date Structure, Comp. Bio., Rand. Net. Opt., Algo. Econ., Advanced Net. Secu.

Overall GPA: 3.65/4.00 (163 credits)

Minor in Statistics

Tsinghua University

📅 September 2017 – July 2020

Core Courses: Stat. Inference, Multivariate Stat. Ana., Intro. to Data Science, Bayes. Theory

Overall GPA: 3.55/4.00 (19 credits)

AWARDS

Global Competence Fellowship 2019 - 2020 🎓 Tsinghua

First-tier fellowship to 20 elites interested in global issues with adequate knowledge and negotiation skills.

Stanford UGVR Scholar 2019

🎓 Stanford & Tsinghua

About \$11,600 sponsorship for summer research internship in Bioengineering Department.

Xuetang Scholarship 2016 - 2020

🎓 Tsinghua

Annual 6,000 CNY to each Yao Class students.

Baidu Scholarship 2017 & 2018

🎓 Tsinghua & Baidu

1,000 CNY for all-round development.

TopOpen Research Funding 2018

🎓 Tsinghua

30,000 CNY research funding at UIUC in 2018.

Mathematical Contest in Modeling Meritorious Winner 2017 🎓 COMAP

Use circuit theories and software to model and optimize the traffic flow in Seattle innovatively.

WORK EXPERIENCE

Community Development Officer

Common Future Fund

Aug 2017 Beijing, China

- Hold exhibitions, reading groups, and online classes to raise awareness and gain social impact

Interpreter

IP Group

Sep 2018 & Oct 2019 Hong Kong & Shanghai & Beijing, China

- IP Group Deep Tech Forum
- Worked as conference assistant for the CEOs of British startups

Teaching Assistant for "Algorithmic Economics"

Tsinghua University

Sep 2019 - Jan 2020 Beijing, China

- Responsible for the data profiling introduction
- Statistics consultant for the course projects

LEADERSHIP AND ACTIVITIES

BRICS Youth Forum Delegate

All-China Youth Federation

Aug 2017 Beijing, China

- The highest level of youth official diplomacy
- Negotiated proposal that was submitted to the BRICS Leaders Xiamen Summit

Field Study in Guiyang about Poverty and Big Data Industry

Guizhou-Cloud Big Data

Feb 2018 Guizhou, China

- Interviewed government leaders
- Investigate the rural area and big data industry
- Wrote a report and provide it to the the director of the Guizhou Big Data Development Administration

Global South Culture Immersion Program – Egypt

The American University in Cairo

Jan 2018 - Feb 2018 New Cairo, Egypt

- Wrote a paper about the Islamization of Egypt in the sixth century
- Studies two weeks in the American University in Cairo
- Visited historical sites

Sea Turtle Protection Volunteer

World Without Borders

Aug 2017 Galle, Sri Lanka

- 2 weeks exploring and volunteering in Sri Lanka

Student Union

Design Group, CS Department, Tsinghua

Aug 2016 - Present Beijing, China

- Designed posters for student activity
- Designed stage background for students' festival

LIFE PHILOSOPHY

"The future is today."

STRENGTHS

Communication

Global Perspective

Leadership

Database

Statistics

Machine Learning

Bioinformatics

Data Mining

International Relations


LANGUAGES

English


Chinese

Español

SKILLS

 **Data Massive**

As a Computer Science student with a Statistics minor, I can apply models in large scale data with efficient algorithms. Besides the accuracy of algorithms, I have the experiences improving the efficiency, too.

 **Coding**

I am enrolled in Tsinghua Yao Class and won scholarships each year. I am familiar with Python, R, and C++. I am also passionate to learn new programming languages.

 **Open-Minded and Global Experiences**

Instead of just sight-seeing, I talked to the local people around the world. I have been to Nepal, Sri Lanka, Egypt, USA, Turkey during my undergraduate program. I did field study in Guizhou about poverty and big data. Activities like BRICS Youth Forum and IMUSE have provided me a broad view of the global affairs.

 **Communication**

I am a good communicator. I have participated in many international activities, such as international visitor receptions, GSF, IMUSE. During my exchange at MIT, I am active in local events. I took part in BRICS Youth Forum as a Chinese delegate, which gave me the chance to communicate with elites from other BRICS countries. I am learning Spanish now.