(Sherilyn) Shiyin WANG

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Computer Science Undergraduate in Tsinghua Yao Class 2020

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RESEARCH EXPERIENCE

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

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

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 client logic part

EDUCATION

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: Linear Algebra, Date Structure, AI, Database, Numeric Ana., Comp. Bio., Rand. Net. Opt., Advanced Net. Secu., Quan. Econ., Game Theory, Comp. Urban System Regulation
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

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)

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. Only 18 scholars per year are admitted from China.

Xuetang Scholarship 2016 - 2020
🎓Tsinghua
Annual 6,000 CNY to each Yao Class students.

Baidu Scholarship 2017 & 2018
🎓Tsinghua & Baidu
Scholarship for all-round development and comprehensive excellence.

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

📅 Apr 2017 - May 2018   📍 Beijing, China

- Hold exhibitions, reading groups, and online classes to raise public awareness and gain social impact
- Maintain social media accounts

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.