

SHERILYN SHIYIN WANG

Computer Science Undergraduate in Tsinghua Yao Class 2020

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RESEARCH EXPERIENCE

Disentangle Private Information from Edge-Cloud Training

Advisor: Song Han, Massachusetts Institute of Technology

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
- Submitted to NeurIPS 2019

Complementary Learning for Named Entity Recognition

Advisor: Jiawei Han, Data Mining Group in U of Illinois at Urbana-Champaign

July 2018 - Sep 2018 IL, US

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

Biological Network Analysis

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

Jul 2019 – Aug 2019 CA, USA

- Build biological networks
- Mine relationships from biological literatures

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

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 one of the most famous table game among Chinese teenagers
- Enable people to compete with each other online through TCP protocol
- Contributed to all the GUI part and some of the client logic part

LIFE PHILOSOPHY

"The future is today."

EDUCATION

Special Student Program

Massachusetts Institute of Technology

Feb 2019 - May 2019

Courses: 6.437 Inference and Information, 6.802 Comp. Bio., 6.045 Auto. Comp. Complex., 6.100 EECS Research
Overall GPA: 5.0/5.0

Bachelor in Computer Science

Tsinghua University

August 2016 – July 2020

Enrolled in the Yao Class (a pilot computer science class of 39 students advised by Turing Award Laureate Professor Andrew Chi-Chih Yao)

Core Courses: Algorithm Design, Machine Learning, Computational Modeling for Urban System Regulation, Numeric Analysis, Data Structure, Mathematics for Computer Science

Overall GPA: 3.4/4.0

Major GPA: 3.5/4.0

Minor in Statistics

Tsinghua University

September 2017 – July 2020

Core Courses: Statistical Inference, Linear Regression, Multivariate Statistical Analysis, Introduction to Data Science, Bayesian Theory

Math Competition Group

Beijing No.4 High School

Sept 2013 – Jun 2013

STRENGTHS

Communication Skills Global Perspective
Leadership Database Machine Learning
Network Analysis Data Mining Statistics

LANGUAGES

English
Chinese



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

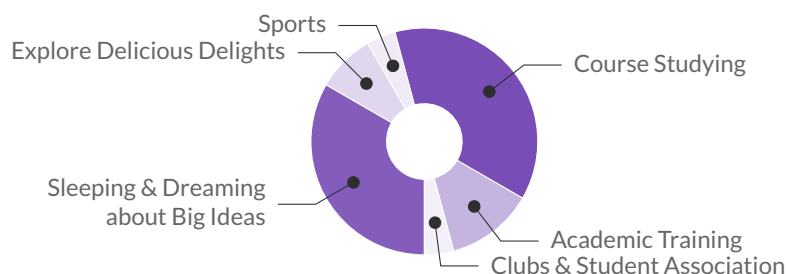
Design Group, CS Department, Tsinghua

Aug 2016 - Present

Beijing, China

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

A DAY OF MY LIFE



SKILLS



DATA MASSIVE

As a computer science student, I am interested in data science, that's why I choose Statistics as a minor. Apart from university courses, I have also learned useful skills from Udacity and recent papers.



CODING

I am enrolled in Tsinghua Yao Class and won a scholarship for the freshman year. I am familiar with Python, R, and c++. I am willing to learn new programming languages.



Open-minded and Global Experiences

Instead of just sight-seeing, I talked to the local people around the world, such as Nepal, Sri Lanka, Egypt. I did field study in Guizhou in 2017 winter about poverty and big data (iCloud data center is newly launched in Guizhou). Activities like BRICS Youth Forum, IMUSE and Schwarzman Global Solution Festival have provided me a broad view of the global affairs.



English Communication

I am a good communicator. I have participated in many international activities, such as Thailand student reception, Schwarzman Global Solution Festival, IMUSE. I took part in BRICS Youth Forum this summer as a Chinese delegate, which gave me the chance to communicate with elites from other BRICS countries.