

## Zhezhen Song

Research Assistant, The Pennsylvania State University, State College, USA  
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### EDUCATION

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**The Pennsylvania State University**, State College, USA  
Master of Science in Computer Science and Engineering

Aug. 2022 — May 2025  
Cumulative GPA: 3.93/4.00

**Xi'an Jiaotong University**, Xi'an, China  
Bachelor of Science in Computer Science

Aug. 2017 — Sep. 2021

**University of California, Berkeley**, Berkeley, USA  
Exchange Student

Jan. 2019 — May. 2020

### PUBLICATIONS

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**Zhezhen Song**, Tasfia Zahin, Xiang Li, Mingfu Shao. Accurate Detection of Tandem Repeats from Error-Prone Sequences with EquiRep. Accepted to RECOMB, 2025. bioRxiv.

Abdullah Al Ishtiaq, Sarkar Snigdha Sarathi Das, Syed Md Mukit Rashid, Ali Ranjbar, Kai Tu, Tianwei Wu, **Zhezhen Song**, Weixuan Wang, Mujtahid Akon, Rui Zhang, Syed Rafiul Hussain. Hermes: Unlocking security analysis of cellular network protocols by synthesizing finite state machines from natural language specifications. USENIX Security Symposium (USENIX Security), 2024.

Chenguang Zheng, Hongzhi Chen, Yuxuan Cheng, **Zhezhen Song**, Yifan Wu, Changji Li, James Cheng, Hao Yang, Shuai Zhang. ByteGNN: efficient graph neural network training at large scale. VLDB, 2022.

### WORK EXPERIENCE

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**Shenzhen Tencent Computer System Co. LTD**  
*Game client development intern*

Shenzhen, China  
Jul. 2020 — Aug. 2020

- Participated in the development of a large-scale RPG game using Unreal Engine 4 and C++.
- Enhanced the game editor's UI, added new functionalities, and optimized building generation algorithms.
- Designed skeletal motion animations with inverse kinematics for game characters.

### TEACHING EXPERIENCE

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**The Pennsylvania State University**  
*Teaching Assistant*

State College, USA

- CMPSC 465: Data Structures and Algorithms

Spring 2023, Fall 2024

### AWARDS

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**Gold Prize, The 2020 ICPC Asia Regional Contest**

May. 2021

### OTHER EXPERIENCES

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#### ICPC (Competitive Programming)

- **Undergraduate contestant** Represented Xi'an Jiaotong University for two years, earning a gold prize in the 2020 International Collegiate Programming Contest (ICPC) Asia Regional Contest.
- **Graduate contestant** Won the first place in the 2023 Penn State Programming Contest.
- **Coach** Served as a coach for the Pennsylvania State University ICPC team starting 2023. Organized training sessions, facilitated discussions among students, and provided competition guidance, contributing to the team's qualification for the North America Championship (NAC) for the first time in the university's history during the ICPC East Central North America Regional Programming Contest (ECNA) 2023. The team qualified again in 2024.