# Yulong Hui

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## RESEARCH INTERESTS

**Expected Future:** Cloud System, Database, AI System
**Past:** Networks, Wireless Communication, Deep Learning

## EDUCATION

**School of Electronic Information, Shanghai Jiaotong University**
Major in Computer Science and Engineering          GPA: 90.3/100          Rank:17/157(10.8%)          Sep 2018 - present

**Zhiyuan College, Shanghai Jiaotong University**
Member of Zhiyuan Honors Program of Engineering (Top 5%)          Feb 2019 - present

**Antai College of Economics, Shanghai Jiaotong University**
Minor in Finance          Feb 2020 - present

## PROFESSIONAL EXPERIENCE

**Shanghai Jiaotong University**          Shanghai, China

Supervised by *Quan Chen*, in Emerging Parallel Computing Center          Mar 2021 − Present
- Research Intern
- Focus on the optimization of Cloud resource and AI system.

Supervised by *Jiadi Yu*, in a school program called PRP          Feb 2021 − Present
- Research Intern
- Project about Gait Recognition based on WiFi, aimed at InfoCom-2021 (Participant)

Supervised by *Linghe Kong*, in Advanced Network Lab          Sep 2019 − Mar 2021
- Research Intern
- Project about LoRa orthogonality, aimed at MobiCom-2021 (Core member)
- Paper about multi-modal learning, though marginally rejected by IJCAI-2021 (Core member)
- Paper about AI used in 5G policy, though rejected by TII-2020(IF>9) (Participant)
- Project: Reinforce the signal strength of LoRa using backscatter (Core member)
- Project: Defraud navigation apps using crowdsourcing method (Participant)

**Tencent**          Shenzhen, China
Department of Cloud Architecture Platform          July 2021 − Sep 2021
- Expected Engineer Intern
- Focus on Operating System.

## SELECTED PROJECT

**Unprivileged Container on HPC**  *EI313: Sci and Tech Innovation*          Nov 2020 − Dec 2020
- Score:30/30, Rank:1/157
- I deployed a container using remote virtual machine to help the users control the resource without giving them root authority, which improves the security of the HPC.

**Advanced Linux Kernel**  *CS356: Experiments on OS*          Mar 2020 − June 2020
- Score:100/100, Rank:1/157
- I designed and implemented an advanced OOM killer, which improved the performance of the Android linux kernel.

**MIPS CPU on FPGA**  *CS145: Experiments on Arch*          Mar 2020 − May 2020
- Score:100/100, Rank:1/157
- I implemented a MIPS CPU with 5-stage pipeline using Verilog HDL.

**B Plus Tree**  *CS158: Data Structure (Honor)*          June 2019
- Score:30/30, Rank:1/80
- I implemented a toy b-plus-tree using C++.

## SCHOLARSHIPS

- Fan Hsu-chi Principal Scholarship (1%)          2019, 2020

- Zhiyuan Honors Scholarship (5%)        2019, 2020
- Excellent Undergraduate Scholarship (15%)        2019, 2020

## SKILLS
**English:** CET4: 601, CET6: 561     (Passing Score: 425)
**Competent:** C and C++, Python, Java, Html & CSS
**Experiences:** Verilog, JavaScript, Matlab

## EXTRACURRICULAR ACTIVATIES
President of Fan-scholar student union        Member of the school soccer team        Academic Counselor of the school
Leader of Zhiyuan Engineering Honors Program        Volunteer of Xingran Class