

# GAO Weihe

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*I study Computer Science as a postgraduate student at Tsinghua University until the summer of 2024. My research interests focus on Distributed Systems, High Performance Computing (HPC), Applied Security, Secure (TEE) Storage Systems, and the system perspectives of Blockchain.*

## EDUCATION

<b>Tsinghua University (CN, ongoing)</b> - Computer Science and Technology (MSc)	2021.09 - 2024.06
Research interests: distributed systems; HPC; secure storage (TEE); system perspectives of blockchain	
<ul style="list-style-type: none"><li>Secure storage over low-latency SSDs; In-memory KV stores; TEE + DPDK/SPDK (Rust &amp; C/C++)</li><li>Blockchain acceleration mechanisms; Cluster-scale RPC over InfiniBand/DPDK/Raw UDP (Rust &amp; C/C++)</li></ul>	
<b>Lancaster University (UK)</b> - Computer Science (BSc)	2018.09 - 2021.06
<ul style="list-style-type: none"><li>Interdisciplinary Contest in Modeling 2019 (ICM 2019), Honorable Mention (First Author)</li></ul>	
<b>Beijing Jiaotong University (CN)</b> - Computer Science and Technology (BEng)	2017.09 - 2021.06

## INTERSHIPS

<b>Standardization Administration Committee/TC426 SC1 of the P. R. China</b> - @ Secretariat	2020.06 - 2020.08
<ul style="list-style-type: none"><li>Combining IEC and ISO standardizing documentation; Smart Home/ Office Building Systems</li></ul>	

## RESEARCH

<b>Open-ended UUT Information Exchange and Decision Supportive System over the Internet</b>	2018.10 - 2020.01
<ul style="list-style-type: none"><li>Network topological design; Hardware and software implementations</li></ul>	
<b>Key Technologies and Application Platform on the Internet Plus Sponge City Microcirculation Model</b>	2018.10 - 2020.12
<ul style="list-style-type: none"><li>Communication protocols; Hardware and software implementations</li></ul>	
<b>Geologic Hazards Visualization and Dynamic Presentation Based on WebGL Technologies</b>	2019.06 - 2020.12
<ul style="list-style-type: none"><li>3D modeling and visualization; Web applications development</li></ul>	
<b>Integrated Applications on Environmental-friendly Fabricated Buildings Informatization</b>	2019.06 - 2020.12
<ul style="list-style-type: none"><li>System integration; Middleware development; Building information modeling (BIM)</li></ul>	

## INNOVATIONS

[CN Patent] Communication gateway circuit and device - ZL 2019 2 1587430.2 (CN 210225447 U)  
[CN Patent] Signal Sampling and Output Circuit and Device - ZL 2019 2 1598628.0 (CN 210721074 U)  
[CN Patent] Beam Position Detector Based on Image Analysis - ZL 2019 2 0427925.2 (CN 209432081 U)  
[CN Patent] Extensible Folding Seat Designed for Train Carriage Aisles - ZL 2016 2 0794058.2  
[Conference Paper] Image-based Deflection Measurement and Error Analysis  
[Conference Paper] Modelling and Implementation of Distributed Rain Water Storage and Utilization  
[Journal Article] Analysis and Research on Cooperative Education and Curricula Construction

## LEADERSHIP EXPERIENCE

<b>SEAL Club</b> - Founder, President	2019.04 - 2020.09
<ul style="list-style-type: none"><li>International culture exchange on the Belt and Road; Collaboration with enterprises on scientific research</li></ul>	
<b>Student Union</b> - Deputy Director @ Public Relations Department	2018.10 - 2019.11