Huzhiyuan Long

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Citizenship: China

Research interests

Computer graphics, rendering

Education

2020 – 2024	**Tongji University** – Shanghai BA in Software Engineering Mentors: Professors Jinyuan Jia. *GPA: 4.45/5(89.53/100).*

Honors and scholarships

2022	Undergraduate School-level Scholarship Third Prize (Tongji University)
2021	Undergraduate School-level Scholarship Third Prize (Tongji University)

Publications

2023	**SRSSIS: Super-Resolution Screen Space Irradiance Sampling for Lightweight Collaborative Web3D Rendering Architecture** **Huzhiyuan Long**, Yufan Yang, Chang Liu, Jinyuan Jia. *CAD/graphics 2023.*

Research experience

12 2021 – 6 2024	**Smart3D Media Lab** Mentor: Professor Jinyuan Jia (Tongji University).

1) Web3D huge model transmission based on visibility precomputation.

2) Collaborative rendering. A rendering architecture that distributes real-time rendering tasks to both client and server simultaneously.

3) Ray tracing on WebGPU. Real time ray traced global illumination on browser based on ReSTIR DI&GI.

Awards

2022   China Collegiate Programming Contest - Shanghai Collegiate Programming Contest
        Bronze Medal

2022   Group Programming Ladder Tournament Individual Third Prize

2021   "Dream-it" CUP Tongji University Programming Contest Third Place Award

2021   Tongji University Mathematical Modeling Competition Third Prize

Technical skills

Programming languages
modern C++, JavaScript, Python

API
WebGPU, Vulkan

Languages
Chinese, English, Japanese(JLPT N2)