

Huzhiyuan Long

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Citizenship: China

Research interests

Computer graphics, rendering

Education

2020 – present **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 – **Smart3D Media Lab**
Present 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(in process). Real time ray traced global illumination on browser based on ReSTIR.

Awards

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| 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

Proficient in: modern C++

Familiar with: JavaScript, Python

Languages

Chinese, English, Japanese(JLPT N2)