

Chunlei Li

+86-17600633417 | li_cl@foxmail.com

RESEARCH INTEREST

Simulation in Computer Graphics
Physics-Based Animation

EDUCATION

Visiting PhD University College London Supervised by Prof. He Wang.	09/2025-Present
PhD. candidate in Computer Science, Beihang University (BUAA) State Key Laboratory of Virtual Reality Technology and Systems(VR Lab). Supervised by Qiping Zhao.	09/2021-Present
MSc. in Power Engineering and Engineering Thermophysics, Beihang University (BUAA) GPA: 85.61/100. Supervised by Qitai Eri. Focus: Biomass Gasification & CFD.	09/2018-06/2021
Exchange student in University of Michigan, Dearborn, US	09/2016-05/2017
BSc. in Energy and Power Engineering, North China Electric Power University (Beijing) (NCEPU) GPA: 3.63/4.0(86.28/100) Ranking: 24/243	09/2014- 07/2018

RESEARCH EXPERIENCE

MGPBD: A Multigrid Accelerated Global XPBD Solver Published on SIGGRAPH 2025, first author , DOI: 10.1145/3721238.3730720.	2025
A Unified Particle-Based Solver for non-Newtonian Behaviors Simulation TVCG, DOI: 10.1109/TVCG.2023.3341453, first author , CCF-A.	2023
----- (Below: Durring master's study) Comparison between Two Eulerian-Lagrangian Methods: CFD-DEM&MPPIC on the biomass gasification in a fluidized bed Biomass Conversion and Biorefinery as the first author , DOI: 10.1007/s13399-021-01384-2, IF: 4.987, Q1	2021
Comparative Study of Three Modified sCO₂ Brayton Recompression Cycles Based on Energy and Exergy Analysis with GA Optimization International Journal of Exergy as the first author , DOI: 10.1504/IJEX.2021.115652, IF:1.383, Q4	2020
Multi-objective Optimization of sCO₂, sCO₂/tCO₂ Cycles Based on Energy-Exergy-Economy balanced Analysis International Journal of Exergy as the first author , DOI: 10.1504/IJEX.2022.122308, IF:1.383, Q4	2020

RESEARCH PLAN

I'm a PhD candidate at the VR Lab of Beihang University, supervised by Prof. Qiping Zhao. My research focuses on computer graphics simulation and AI4Science. Currently I am a visiting student at University College London, supervised by Prof. He Wang. My personal page is <https://chunleili.github.io/personal-page/>

AWARDS & HONORS

•Top 10 Outstanding Graduates Students of Beihang University (nominate)	2021
•Outstanding Graduate of Beihang University	2021
•Outstanding Graduate of NCEPU (Beijing)	2018

PROFESSIONAL SKILLS

- Programming languages: C/C++/CUDA/MATLAB/Fortran/Python/CUDA/Taichi;
- Houdini
- English: CET Band 6: 578; CET 4: 560 TOEFL: 97(R-30, L-25, S-19, W-23); GRE: 323+3.5

INTERNSHIP & PROJECT

Zeno tech.	2022.6-2022.12
R&D of the PBD method in the DCC software using C++ Taichi Graphics	2023.2-2023.9
R&D of PBD method, supervised by Dr. Tiantian Liu. Alibaba	2025.5-2026.5
R&D of GPU-based self-developed muscle node in Houdini	