**Chunlei Li**

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**RESEARCH INTEREST**

Simulation in Computer Graphics

Physics-Based Animation

**EDUCATION**

**Visiting PhD** University College London 09/2025-Present

Supervised by Prof. He Wang.

**PhD. candidate** in Computer Science, Beihang University (BUAA) 09/2021-Present

State Key Laboratory of Virtual Reality Technology and Systems(VR Lab). Supervised by Qinping Zhao.

**MSc.** in Power Engineering and Engineering Thermophysics, Beihang University (BUAA) 09/2018-06/2021

GPA: 85.61/100. Supervised by Qitai Eri. Focus: Biomass Gasification & CFD.

**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) 09/2014- 07/2018

GPA: 3.63/4.0(86.28/100) Ranking: 24/243

**RESEARCH EXPERIENCE**

***MGPBD: A Multigrid Accelerated Global XPBD Solver***  2025

Published on SIGGRAPH 2025, **first author**, DOI: 10.1145/3721238.3730720.

***A Unified Particle-Based Solver for non-Newtonian Behaviors Simulation*** 2023

TVCG, DOI: 10.1109/TVCG.2023.3341453, **first author**, CCF-A.

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(Below: Durring master’s study)

***Comparison between Two Eulerian-Lagrangian Methods: CFD-DEM&MPPIC on the biomass gasification in a fluidized bed*** 2021

*Biomass Conversion and Biorefinery* as the **first author**, DOI: 10.1007/s13399-021-01384-2,IF: 4.987, Q1

***Comparative Study of Three Modified sCO2 Brayton Recompression Cycles Based on Energy and Exergy Analysis with GA Optimization*** 2020

*International Journal of Exergy* as the **first author**, DOI: 10.1504/IJEX.2021.115652, IF:1.383, Q4

***Multi-objective Optimization of sCO2, sCO2/tCO2 Cycles Based on Energy-Exergy-Economy balanced Analysis*** 2020

*International Journal of Exergy* as the **first author**, DOI: 10.1504/IJEX.2022.122308, IF:1.383, Q4

**RESEARCH PLAN**

I'm a PhD candidate at the VR Lab of Beihang University, supervised by Prof. Qinping 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