Chunlei Li

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Summary

I'm a PhD candidate at the VR Lab of Beihang University from 2021, supervised by Prof. Qinping Zhao. My research focuses on computer graphics simulation. Currently I am a visiting student at University College London, supervised by Prof. He Wang. I am about to graduate in 2026. I am now working on the project of accelearting the solution of PDE with neural operator.

Education

University College London, Visiting PhD in Computer Science — Sept 2025 – Sept 2026

Beihang University (BUAA), PhD in Computer Science — Sept 2021 – Dec 2026

Beihang University (BUAA), MSc in Power Engineering and Engineering Thermophysics — Sept 2018 – June 2021

University of Michigan, Dearborn, Exchange Student in Energy and Power Engineering — Sept 2016 – May 2017

North China Electric Power University (Beijing), BSc in Energy and Power Engineering — Sept 2014 – July 2018

Publications

MGPBD: A Multigrid Accelerated Global XPBD Solver — Aug 2025
Chunlei Li, Peng Yu, Tiantian Liu, Siyuan Yu, Yuting Xiao, Shuai Li, Aimin Hao, Yang Gao, Qinping Zhao
10.1145/3721238.3730720 (SIGGRAPH)

A Unified Particle-Based Solver for non-Newtonian Behaviors Simulation — Dec 2023
Chunlei Li, Yang Gao, Jiayi He, Tianwei Cheng, Shuai Li, Aimin Hao
10.1109/TVCG.2023.3341453 (IEEE Transactions on Visualization and Computer Graphics)

Comparison between Two Eulerian-Lagrangian Methods: CFD-DEM & MPPIC on the biomass gasification in a fluidized bed — Feb 2021
Chunlei Li, Qitai Eri
10.1007/s13399-021-01384-2 (Biomass Conversion and Biorefinery)

Comparative Study of Three Modified sCO2 Brayton Recompression Cycles Based on Energy and Exergy Analysis with GA Optimization — Jan 2021
Chunlei Li, Qitai Eri
10.1504/IJEX.2021.115652 (International Journal of Exergy)

Multi-objective Optimization of sCO_2, sCO_2/tCO_2 Cycles Based on Energy-Exergy-Economy Balanced Analysis — Apr 2022
Chunlei Li, Qitai Eri
10.1504/IJEX.2022.122308 (International Journal of Exergy)

Experience

R&D, Zeno Tech – Online — June 2022 – Dec 2022
- Intern
- R&D of the PBD method in the DCC software using C++.

R&D, Taichi Graphics – Beijing — Feb 2023 – Sept 2023
- Intern
- R&D of the PBD method. Supervised by Dr. Tiantian Liu, development of PBD solver.

R&D, Alibaba – Beijing — May 2025 – May 2026

- R&D of the PBD method. Design the algorithm of multigrid accelerated GPU-based muscle node in Houdini
- horizontal project

Awards

Top 10 Outstanding Graduate Students of Beihang University: Beihang University

Outstanding Graduate of Beihang University: Beihang University

Outstanding Graduate of NCEPU (Beijing): NCEPU (Beijing)

Skills

Languages: CET Band 6: 578, CET Band 4: 560, TOEFL: 97, GRE: 323+3.5

DCC Software: Houdini