

Caoliwen Wang

University of British Columbia (UBC)
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Educational Background

University of British Columbia

Ph.D. in Computer Science

Advisor: Prof. Peter Yichen Chen

Sep 2025 - Current

University of Science and Technology of China

B.S. in Computational Mathematics

Thesis Advisor: Prof. Ligang Liu, Prof. Qing Fang

Sep 2021 - Jun 2025

Publications

- [1] Siyuan Chen^{*}, Minghao Guo^{*†}, **Caoliwen Wang**, Anka He Chen, Yikun Zhang, Jingjing Chai, Yin Yang, Wojciech Matusik, and Peter Yichen Chen[†]. Physically Valid Biomolecular Interaction Modeling with Gauss-Seidel Projection. *International Conference on Learning Representations (ICLR)*, 2026.
- [2] **Caoliwen Wang**, Bailin Deng, and Juyong Zhang[†]. Neural Shadow Art. *Pacific Graphics (Conference Track)*, 2025.

Preprints

- [1] Liangchen Li, **Caoliwen Wang**, Yuqi Zhou, Bailin Deng, and Juyong Zhang[†]. Shape from Semantics: 3D Shape Generation from Multi-View Semantics.

Skills

Programming: C, C++, C#, Python, Pytorch, Matlab, Mathematica

Tools: Meshlab, Blender, Github, LaTeX

Languages: Chinese, English

Teaching Experience

Teaching Assistant of Course "Mathematical Modeling" (USTC)	Mar 2025 - Jun 2025
Teaching Assistant of Course "Numerical Algebra" (USTC)	Sep 2024 - Jan 2025
Teaching Assistant of Course "Mathematical Analysis A2" (USTC)	Mar 2024 - Jul 2024
Teaching Assistant of Course "Introduction to Differential Equations" (USTC)	Sep 2023 - Jan 2024

Working Experience

Research Assistant

Graphics&Geometric Computing Laboratory (GCL) at USTC

Advisor: Prof. Juyong Zhang

Sep 2023 - June 2025

Geometric Computing and Graphics Group at Cardiff University

Advisor: Prof. Bailin Deng

June 2024 - June 2025

Scholarships and Awards

University and Provincial Outstanding Graduate Award 2025 (USTC)