

Honglin Chen

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Education

May 2026 (Expected) Sep 2021-	PhD in Computer Science Department of Computer Science Columbia University , New York, United States <i>Advisor: Prof. Changxi Zheng</i>
Sep 2019-Jan 2021	MSc in Computer Science Department of Computer Science University of Toronto , Toronto, Canada <i>Advisor: Prof. David I.W. Levin</i>
Sep 2015-Jun 2019	B.Eng. in Computer Science and Technology College of Computer Science & Technology Zhejiang University , Hangzhou, China GPA: 3.89/4.0

Publication

- Honglin Chen**, Changxi Zheng, Kevin Wampler.
Local Deformation for Interactive Shape Editing.
SIGGRAPH 2023
- Honglin Chen***, Rundi Wu*, Eitan Grinspun, Changxi Zheng, Peter Yichen Chen.
Implicit Neural Spatial Representations for Time-dependent PDEs.
ICML 2023
- Ty Trusty, **Honglin Chen**, David I.W. Levin.
The Shape Matching Element Method: Direct Animation of Curved Surface Models.
ACM Transactions on Graphics (SIGGRAPH), 2021.
- Honglin Chen**, Hsueh-Ti Derek Liu, Alec Jacobson, David I.W. Levin.
Chordal Decomposition for Spectral Coarsening.
ACM Transactions on Graphics (SIGGRAPH Asia), 2020.

Work Experience

Jun 2023- Aug 2023	Research Intern Adobe Inc. <i>Mentor: Prof. Alec Jacobson</i>
Jun 2022- Aug 2022	Research Intern Adobe Inc. Project: Local Deformation <i>Mentor: Dr. Kevin Wampler</i>
Feb 2021- May 2021	Research Intern NVIDIA Toronto AI Lab, NVIDIA <i>Mentor: Prof. Sanja Fidler</i>

Nov 2018-May 2019 | **Research Intern**
Internet Graphics Group, **Microsoft Research Asia**
Project: Soft Pneumatic Model | *Mentor: Dr. Yizhong Zhang*

Honors and Scholarships

University of Toronto Tuition Fellowship	2019-2021
First Class Academic Scholarship(Top 5% in Academic Performance)	2016
Distinctive Student Awards	2016
Scholarship of the Government of Zhejiang Province	2016
Scholarship of Arts and Athletics	2016, 2017

Research Experience

Apr 2018-Jun 2019 | **Undergraduate Research Intern**
State Key Lab of CAD&CG, Zhejiang University
Project: Embedded Deformation | *Advisor: Prof. Jin Huang*

Jul-Sep 2018 | **Summer Research Intern**
Nanyang Technological University
Project: Interactive Material Design | *Advisor: Prof. Jianmin Zheng*

Academic Services

Reviewers for SIGGRAPH(2023, 2024), Eurographics(2024)

Invited Talks

1. AI4Science Talks Mar 2023
Neural Fields for PDEs.
2. Toronto Geometry Colloquium Nov 2020
Chordal Decomposition for Spectral Coarsening.

Teaching

- **Teaching Assistant, Columbia University:**
COMS4167 Computer Animation Instructor: *Changxi Zheng* Spring 2024
COMS4732 Computer Vision II: Learning Instructor: *Carl Vondrick* Spring 2023
- **Substitute Lecturer, University of Toronto:**
CSC2521 Seminar in Geometry and Animation Instructor: *Alec Jacobson* Fall 2020
- **Teaching Assistant, University of Toronto:**
CSC2521 Seminar in Geometry and Animation Instructor: *Alec Jacobson* Fall 2020
CSC2549/417 Physics Based Animation Instructor: *David I.W. Levin* Fall 2020
CSC2504/418 Computer Graphics Instructor: *Sarah Kushner* Summer 2020
CSC2504/418 Computer Graphics Instructor: *David I.W. Levin* Winter 2020

Community Services

1. Summer Geometry Initiative, *Mentor* 2023
2. Columbia CS PhD Pre-Submission Application Review Program, *Reviewer* 2022-2023