

Honglin CHEN

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RESEARCH INTERESTS

My research interests mainly focus on Computer Graphics, especially on numerical optimization and its applications on visual computing problems, e.g. physics-based simulation and digital fabrication.

Most of my recent work is related to physics-based simulation, while a bunch of other topics remain attractive to me, including the application of machine learning on simulation and shape modeling.

EDUCATION

JUN 2019 (<i>Expected</i>) SEP 2015	B.Eng. in Computer Science and Technology College of Computer Science & Technology Zhejiang University , Hangzhou, China OVERALL GPA: 3.89/4.0(87.3/100) MAJOR GPA: 3.89/4.0
SEP 2017-DEC 2017	Exchange Student Department of Computer Science University of British Columbia , Vancouver, Canada

WORK EXPERIENCE

Nov 2018 - Current	Development Intern INTERNET GRAPHICS GROUP, Microsoft Research Asia Project: Soft Pneumatic Model <i>Mentor: Yizhong Zhang</i>
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RESEARCH EXPERIENCE

<i>Current</i> APR 2018	Undergraduate Research Intern STATE KEY LAB OF CAD&CG, Zhejiang University Final Year Thesis: Constitutive model approximation using volume graph <i>Advisor: Jin Huang</i>
JUL-SEP 2018	Summer Research Intern MULTIMEDIA AND INTERACTIVE COMPUTING LAB, Nanyang Technological University Project: Interactive Material Design <i>Advisor: Jianmin Zheng</i>
OCT 2017-MAR 2018	Research Trainee STUDENT RESEARCH TRAINING PROGRAM, Zhejiang University Project: Cloth Simulation <i>Advisor: Kun Zhou</i>

SELECTED PROJECTS

JUL-CURRENT 2018	Interactive Material Editor Advisor: Jianmin Zheng An open-source interactive material editor supporting global Young Modulus optimization and visualization based on force and displacement input.(source) Reference: Interactive Material Design using Model Reduction , Siggraph 2015
MAR-JUN 2018	Animation based on Embedded Deformation Course: Advance in Computer Graphics Advisor:Kun Zhou/Zhong Ren Project ranked top 1% (99.0/100) An open-source interactive solution for object animation. (source) Reference: Embedded Deformation for Model Reduction , Siggraph 2007
JAN-MAR 2018	Cloth Simulation A simple cloth simulator based on mass-spring model. (demo) Implement collision detection and response. Reference: Robust treatment of collisions, contact and friction for cloth animation , Siggraph 2002 and Simulation of clothing with folds and wrinkles , Eurographics 2003
JUL 2017	Mini Scientific Calculator A simple open-source scientific calculator following MVVM model. (source) Implement algorithms of calculating conditional number, solving matrix equation, polynomial equation, integral and ordinary differential equation, cubic spline and creating line chart.

HONORS AND SCHOLARSHIPS

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
Scholarship of Arts and Athletics	2017

LANGUAGE & SKILLS

ENGLISH:	TOEFL score: 108 (R: 30 L:29 S:22 W:27) GRE score (V: 157 Q: 170 AW: 4.0)
PROGRAMMING SKILL:	C++(primary language): abundant experience with Linux+Cmake and QT, familiar with major open-source graphics library(Eigen, Libigl, Vegas, Tetgen, VCGLib), OpenGL and GLSL OPENCV(familiar) LATEX(good) GIT(good) PYTHON(average) ASSEMBLY LANGUAGE(average) ERLANG(average) CUDA C(limited)
GRAPHICS SOFTWARE:	MESHLAB(familiar) BLENDER(familiar) UNITY3D(limited)

INTERESTS AND ACTIVITIES

I enjoy long-distance running and run pretty fast.

Related Prizes

1-st prize winner at the women's 3000 m, Sports meeting of Zhejiang University	Nov.2015
2-nd prize winner at the women's 1500 m, Sports meeting of Zhejiang University	Nov.2015