

Minchen Li

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RESEARCH INTERESTS

I'm interested in computer graphics research, especially geometry processing and physics-based simulation.

EDUCATION

M.Sc. in Computer Science

Sep. 2015 – Aug. 2018(expected)

Department of Computer Science, The University of British Columbia

Vancouver, Canada

Supervisor: Prof. Alla Sheffer

Grade Average: 95.3/100

B.Eng. (Hons) in Computer Science & Technology (Mixed Class)

Sep. 2011 – Jul. 2015

College of Computer Science & Technology and Chu Kochen Honors College, Zhejiang University

Hangzhou, China

Overall GPA: 3.81/4.00

Major GPA: 3.88/4.00

Major Ranking: Top 3%

HONORS AND SCHOLARSHIPS

Mitacs Globalink Graduate Fellowship (10,000 CAD)

Jun. 2015

Excellent Bachelor's Thesis Award at Zhejiang University

Jun. 2015

First Class Scholarship for Outstanding Merits (Top 3% in Academic Performance, 5,000 RMB)

2013-2014

PUBLICATIONS

- Xinxin Zhang, **Minchen Li**, and Robert Bridson. Resolving Fluid Boundary Layers with Particle Strength Exchange and Weak Adaptivity. *ACM Transactions on Graphics (SIGGRAPH)*, 2016.
- **Minchen Li**, Wei Cai, Ke Wang, Hong Ji, and Victor C.M. Leung. Prototyping Decomposed Cloud Software: A Case Study on 3D Skeletal Game Engine. *IEEE International Conference on Cloud Computing Technology and Science (CloudCom)*, 2015.
- Wei Cai, Conghui Zhou, **Minchen Li**, Xiuhua Li, and Victor C.M. Leung. MCG Test-bed: An Experimental Test-bed for Mobile Cloud Gaming. *ACM MobiSys Workshop on Mobile Gaming (MobiGames)*, 2015.

TEACHING EXPERIENCE

Teaching Assistant at The University of British Columbia

Sep. 2015 – Apr. 2016

➤ **CPSC 418 - Parallel Computation**

Instructor: Prof. Mark R. Greenstreet

Jan. 2016 - Apr. 2016

➤ **CPSC 314 - Computer Graphics**

Instructor: Dr. Mikhail Bessmeltsev

Sep. 2015 - Dec. 2015

RESEARCH EXPERIENCE

- **Research Intern** in Creative Intelligence Lab at Adobe Research **Sep. 2017 – Nov 2017**
Project: Joint Optimization for Mesh Parameterization **Mentor:** Dr. Danny Kaufman, Dr. Vova Kim
- **Research Assistant** in The Imager Lab at The University of British Columbia **May. 2016 – Present**
Project: Physics-driven Geometric Modeling **Supervisor:** Prof. Alla Sheffer
- **Research Assistant** at Institute of Artificial Intelligence, Zhejiang University **Nov. 2014 – May. 2015**
Project: Skeletal Animation in a Human Modeling System **Supervisor:** Dr. Jijun Li
- **Mitacs Globalink Research Intern** at The University of British Columbia **Jul. 2014 – Sep. 2014**
Project: Cognitive Platform for Ubiquitous Cloud-Based Gaming **Supervisor:** Prof. Victor C.M. Leung

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- **National Training Program on Innovation for Undergraduates in China** **Oct. 2013 – Apr. 2014**
Project: Multi-Platform 3D Human Face Reconstruction Apps **Supervisor:** Prof. Kun Zhou
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COURSE PROJECTS

- **Subspace Mesh Deformation with Constrained Nonlinear Least Squares Energy** **Nov. 2016 – Dec. 2016**
Course: CPSC 524 – Geometric Modeling **Instructor:** Prof. Alla Sheffer
- **A Vertex-Edge Quadric for Edge Collapse Mesh Simplification** **Feb. 2016 – Apr. 2016**
Course: CPSC 548 – Directed Studies **Instructor:** Prof. Alla Sheffer
- **Image Caption Generators based on Deep Neural Networks** **Mar. 2016 – Apr. 2016**
Course: CPSC 540 – Machine Learning **Instructor:** Dr. Mark Schmidt
- **Eulerian Liquid Simulation with Weakly Coupled Rigid Body** **Nov. 2015 – Dec. 2015**
Course: CPSC 530P – Sensorimotor Computation **Instructor:** Prof. Dinesh K. Pai
- **Air-Ground Image Matching for MAV Urban Localization** **Nov. 2015 – Dec. 2015**
Course: CPSC 515 – Computational Robotics **Instructor:** Prof. Ian M. Mitchell
- **Mesh Deformation with Linear Laplacian Coordinates** **May. 2014 – Jun. 2014**
Course: Advances in Computer Graphics **Instructor:** Prof. Kun Zhou
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PROGRAMMING SKILLS

Proficient: C/C++, OpenGL, MATLAB, LaTeX

Familiar: Java, JavaScript, CUDA C, OpenCV, MFC

EXTRACURRICULAR ACTIVITIES

Photographer and Executive of Chinese Students and Scholars Association at UBC

Oct. 2015 – Mar. 2016

Director of Photography of Chu Kochen Honors College's Graduate Short Film

Apr. 2015 – Jun. 2015