Chiyu "Max" Jiang

3D Deep Learning | Scientific Computing
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EDUCATION

UC BERKELEY
Ph.D, Mechanical Engineering
Mar 10, 2020 | Berkeley, CA
3D Deep Learning & Scientific Computing
Advisor: Philip Marcus

CORNELL UNIVERSITY
B.S., Bio Engineering
May 2015 | Ithaca, NY

ZHEJIANG UNIVERSITY
B.S., Bio Engineering
May 2015 | Hangzhou, China

LINKS

Site: maxjiang.ml
Github: maxjiang93
LinkedIn: maxcjiang

COURSEWORK

Computer Vision
Deep Reinforcement Learning
Parallel Computing
Introduction to Machine Learning
Finite Element Analysis
Spectral Methods for Fluid Dynamics
Advanced Fluid Mechanics I/II
Num Solution of Diff Eqn

SKILLS

Proficient :
Python (Tensorflow, PyTorch) •
C (CUDA/OpenMP/MPI) •
C++ • Bash • Matlab • LaTeX
Familiar :
html • css • Javascript

REFERENCE

Philip Marcus
Professor of Mechanical Engineering,
UC Berkeley
pmarcus@me.berkeley.edu

Matthias Nießner
Professor
Department of Informatics
Technical University of Munich
niessner@tum.de

WORK EXPERIENCE

GOOGLE AI
Mountain View, CA | Research Intern | May 2019 - Mar 2020
Research Intern / Student Researcher at Google - 3D geometric representations.

LAWRENCE BERKELEY NATIONAL LABORATORY
Berkeley, CA | Research Intern | June 2018 - Aug 2018
Internship at NERSC supercomputing center. Reseach on spherical CNNs.

UC BERKELEY
CS294-73 Software Engr. for Scientific Computing | Aug 2017 - Dec 2017

PUBLICATION

[1] Chiyu Jiang, Avneesh Sud, Ameesh Makadia, Jingwei Huang, Matthias Nießner, and Thomas Funkhouser. Learning Local Implicit Grid Representation for 3D Scenes. In *IEEE Conference on Computer Vision and Pattern Recognition*, 2020.

[2] Jingwei Huang, Justus Thies, Angela Dai, Abhijit Kudu, Chiyu Jiang, Leonidas Guibas, Matthias Niessner, and Thomas Funkhouser. Adversarial Texture Optimization from RGB-D Scans. In *IEEE Conference on Computer Vision and Pattern Recognition*, 2020.

[3] Chiyu Jiang, Dana Lynn Ona Lansigan, Philip Marcus, and Matthias Nießner. DDSL: Deep Differentiable Simplex Layer for Learning Geometric Signals. In *IEEE International Conference on Computer Vision*, 2019.

[4] Chiyu Jiang, Jingwei Huang, Karthik Kashinath, Prabhat, Philip Marcus, and Matthias Niessner. Spherical CNNs on Unstructured Grids. In *International Conference on Learning Representations*, 2019.

[5] Chiyu Jiang, Dequan Wang, Jingwei Huang, Philip Marcus, and Matthias Niessner. Convolutional Neural Networks on Non-uniform Geometrical Signals Using Euclidean Spectral Transformation. In *International Conference on Learning Representations*, 2019.

[6] Balasubramanya Nadiga, Chiyu Jiang, and Daniel Livescu. Leveraging bayesian analysis to improve accuracy of approximate models. *Journal of Computational Physics*, 394:280 – 297, 2019.

[7] Sahuck Oh, Chung-Hsiang Jiang, Chiyu Jiang, and Philip S. Marcus. Finding the optimal shape of the leading-and-trailing car of a high-speed train using design-by-morphing. *Computational Mechanics*, Oct 2017.

AWARDS

2018	Chang-Lin Tien Graduate Fellowship, UC Berkeley
2017	The Frank and Margaret Lucas Scholarship, UC Berkeley
2017	Graduate Division Block Grant Award, UC Berkeley
2015-16	The Jonathan Laitone Memorial Scholarship, UC Berkeley
2013-15	Dean's List, CALS, Cornell University
2011-13	Scholarship for Academic Excellence, Zhejiang University
2011-13	Merit Student, Zhejiang University