Chiyu "Max" Jiang

Deep Learning | Scientific Computing
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EDUCATION

UC BERKELEY
Ph.D, Mechanical Engineering
Expected May 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

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

SKILLS

PROGRAMMING
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 - Aug 2019
Research internship at Google AI developing novel 3D computer vision algorithms.

LAWRENCE BERKELEY NATIONAL LABORATORY
Berkeley, CA | Deep Learning Summer Intern
June 2018 - Aug 2018
Internship at Data Analytics group at NERSC supercomputing center. Developed novel algorithms for implementing CNNs on unstructured grids, with applications to panoramic image semantic segmentation and global climate pattern detection.

UC BERKELEY | Graduate Student Instructor
Aug 2017 - Dec 2017 | CS294-73 Software Engineering for Scientific Computing

PUBLICATION

[1] C.Jiang, D.Wang, J.Huang, P.Marcus, and M.Niessner. Convolutional Neural Networks on Non-uniform Geometrical Signals Using Euclidean Spectral Transformation. In *International Conference on Learning Representations (ICLR)*, 2019.

[2] C.Jiang, D. L. O.Lansigan, P.Marcus, and M.Nießner. DDSL: Deep Differentiable Simplex Layer for Learning Geometric Signals. *arXiv preprint arXiv:1901.11082*, 2019.

[3] C.Jiang, J.Huang, K.Kashinath, Prabhat, P.Marcus, and M.Niessner. Spherical CNNs on Unstructured Grids. In *International Conference on Learning Representations (ICLR)*, 2019.

[4] S.Oh, C.-H.Jiang, C.Jiang, and P. 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.

[5] C.Jiang and P.Marcus. Hierarchical Detail Enhancing Mesh-Based Shape Generation with 3D Generative Adversarial Network. *arXiv preprint arXiv:1709.07581*, 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