

# Chiyu “Max” Jiang

3D Deep Learning | Scientific Computing  
chiyu.jiang@berkeley.edu | maxjiang.ml | 607.379.4895

## 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

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 • L<sup>A</sup>T<sub>E</sub>X

**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