

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](https://github.com/maxjiang93)
LinkedIn: [maxcjiang](https://www.linkedin.com/in/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

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|---------|----------------------------------------------------------|
| 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 |