

David

Chan

Personal Info

Phone

+1 (303) 475 5153

Email

david@iridescent.io

GitHub

github.com/DavidMChan

LinkedIn

linkedin.com/in/david-m-chan

Website

people.eecs.berkeley.edu/~davidchan

Programming Languages

Advanced Knowledge

C++ C Python Java CUDA

Working Knowledge

Javascript Scala Swift

Matlab R C#

General Familiarity

Go PHP

Technologies/Frameworks

Deep Learning/ML

Tensorflow PyTorch Caffe

Keras MxNet NumPy

SK-Learn Jax

Distributed/Parallel

OpenMP MPI Spark

Hadoop NCCL

Misc

HMTL CSS Git Bash

Bazel GCP/AWS/Azure

Kubernetes React Flask

PhD student, AI researcher, and design enthusiast studying how AI and humans can work together to make the world a better place.

Education

2017-Present

University of California, Berkeley, PhD (Computer Science)

- Advised by Dr. John Canny, 4.0 GPA

2017-2020

University of California, Berkeley, MS (Computer Science), 4.0 GPA

2013-2017

University of Denver, BSc (Mathematics + Computer Science)

- 4.0 GPA, Summa Cum Laude, Honors with Distinction, Phi Beta Kappa

Experience

Google AI, Research Intern

Summer 2020

- Created and worked to productionize large-scale systems for dense video description. Ran and developed distributed experiments at scale (>512 GPUs, >64 nodes).

Dropbox, PhD Research Intern

Summer 2019

- Designed, developed and deployed Dropbox's first ever AI for content analysis at production scale. Pioneered novel multi-media representation learning algorithms.

NASA Jet Propulsion Laboratory, Intern

2018

- Developed flight-ready provable AI systems for high-risk environments. Contributed core software to DARPA Subterranean Challenge team.

Dreamface Technologies, Research Assistant

2014-2017

- Developed novel deep learning based computer vision algorithms in collaboration with the University of Denver to aid children with Autism Spectrum Disorders.

University of Denver, Undergraduate Lecturer

2015-2017

Selected Publications

Active Learning for Video Description with Cluster Regularized Ensemble Ranking, Asian Conference on Computer Vision (ACCV), 2020

ZPD Teaching Strategies for Deep Reinforcement Learning from Demonstrations, NeurIPS Deep Learning Workshop, 2019

GPU Accelerated t-Distributed Stochastic Neighbor Embedding, Journal of Parallel and Distributed Computing (JPDC), 2019 (**Outstanding Paper Award** @ HPML 2018)

Using hierarchical constraints to avoid conflicts in multi-agent pathfinding, International Conference on Automated Planning and Scheduling (ICAPS), 2017

Going deeper in facial expression recognition using deep neural networks, IEEE Winter conference on applications of computer vision (WACV), 2016

Selected Awards/Grants

Berkeley CTSP, Fellowship

2020

CITRIS Institute, Tech Innovation Grant

2019

Herbert J Greenburg Award for Excellence in Mathematics

2017

Departmental Service Award - Univeristy of Denver

2017

Undergraduate Student Researcher of the Year

2017

Outstanding Mathematics Major

2015, 2016, 2017