David Chan

Personal Info

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GitHub
DavidMChan

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Programming Languages

Advanced Knowledge

C++ | C | Python | Java | Matlab

Working Knowledge

Scala | Lua | Javascript | C# | R

General Familiarity

PHP

Technologies/Frameworks

Deep Learning/ML

Tensorflow | Caffe | PyTorch | Keras | NumPy | SK-Learn

Distributed & Parallel

OpenMP | MPI | Hadoop | Spark

Misc

HTML5 | CSS | AWS | Git | SQL | CUDA | OpenCV | Photoshop | Bash | Flask

PhD student, AI researcher, and design enthusiast with a background in deep learning for computer vision and multi-agent path finding.

Education

2017-Present — PhD in Computer Science
University of California, Berkeley
- Advised by Dr. John Canny (EECS Dept.)
- Member of BAIR, Berkeley PATH and Berkeley Inst. Of Design
- 4.0 GPA

2013-2017 — BSc in Computer Science, BSc in Mathematics
University of Denver
- 4.0 GPA, Summa Cum Laude, Honors, Distinction in Major
- Phi Beta Kappa

Experience

2018 — Intern, NASA Jet Propulsion Laboratory
- Developed flight-ready systems for autonomous agents
- Contributed core software to DARPA Subterranean Challenge Team

2014-2017 — Undergraduate Lecturer, University of Denver
- Designed curriculum for remedial algorithms, data-structures, and discrete mathematics
- Taught and evaluated multiple 20-30 student class sections
- Responsible for training additional undergraduate lecturers
- Self created position

2014-2017 — Research Assistant, DreamFace Technologies
- Developed novel deep learning based computer vision algorithms in collaboration with the University of Denver to aid children with Autism Spectrum Disorders

2016-2017 — Research Assistant, University of Denver
- Worked with Dr. Nathan Sturtevant to develop state of the art approximation algorithms for multi-agent path finding

2015 — Student Ambassador, Google

2014 — Instructor, iD Tech Camps

Selected Peer-Reviewed Research

"**GPU Accelerated T-SNE and its Applications to Modern Data.**" High Performance Machine Learning (HPML). **Outstanding Paper Award.** 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 Computer Vision. 2016.

"**Facial expression recognition from world wild web.**" Computer Vision and Pattern Recognition Workshops (CVPRW), IEEE, 2016.

Awards

2017 — Herbert J. Greenberg Award for Excellence in Mathematics

2017 — Departmental Service Award - University of Denver CS

2017, 2016 — Outsanding Computer Science Major

2017, 2016, 2015 — Outsanding Mathematics Major