

Will Wright

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Profile

Programmer and mathematician with 4 years experience in algorithms and machine learning. Developed algorithms for large, complex problems and optimized methods to boost performance (see projects below). Enjoys self-learning and deep dives to understand high- and low-level details. Seeking a role within a dynamic team environment to further develop skills and deliver value-driven results.

Highlights

- Autonomous systems
- Algorithm design
- Machine/Deep learning, [TensorFlow](#)
- Classification, pattern recognition
- Data science tools/environments
- Large-scale, [sparse methods](#)

Selected Projects

[Image Segmentation](#)

- Developed [faster algorithm](#), decreased runtime 80-95% for segmenting large images
- Designed [sparse method](#) for adjacency matrix **superior to scikit method**
 - Requires $O(\text{pixel})$ low-level operations vs $O(\text{pixels}^2)$ for scikit-image/rag.py

[Signal / Image Processing](#)

- Created [adaptive hyperparameter method](#) based on [grid search strategy](#)
- [Decreased low-level operations and runtime](#) by 50-90%
- Showed our algorithm is [better at denoising](#) than other algorithms (wflow, HIO)

[LASSO Regularization](#)

- Proved equivalence of two recent methods in [qualifying exam proposal](#)
- Designed algorithm which **scales better than built-in MATLAB software**
 - New algorithm [scales appx. linearly with problem size](#)

Education

PhD Mathematics - University of California, Davis	2019
<ul style="list-style-type: none">• Dissertation: An Improved Descent Method for Noisy Phase Retrieval• SIAM Student Chapter President 2015-2016, Member 2013-2019	
MS Applied Math - CSU, East Bay	2013
<ul style="list-style-type: none">• 2012 - Tracewell Scholarship• 2011 - Sabharwal Scholarship	
MA Teaching - Concordia University, Portland OR	2009
BS Political Science and Philosophy - Penn State	2006

Professional Experience

Researcher and Software Engineer Intern - Apple	2016
<ul style="list-style-type: none">• Tested various algorithms to inform the direction of an autonomous systems project• Developed performance critical code for embedded systems	
Assistant Instructor - CSU, East Bay	2011 - 2013
Middle School Teacher - Academy of Alameda, Alameda CA	2010 - 2011
High School Teacher - Delta Academy, Antioch CA	2009 - 2010

Technical Skills

- C++, Python, MATLAB, Git
- TensorFlow, Keras, scikit-learn
- Building ML & DL models
- Familiar with ResNet-50, BERT

Interests

Running, brewing beer, hiking, board games, guitar, audiobooks and podcasts