

# Will Wright

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## Profile

Programmer and mathematician with 4 years experience creating machine learning models and developing algorithms for large, complex problems. Optimized several methods to boost performance (see projects below). Enjoys self-learning and deep dives to understand high- and low-level details of state-of-the-art methods. Seeking a role within a dynamic team environment to further develop skills, while learning how to deliver value driven results.

## Highlights

- Machine / Deep learning ([TensorFlow](#))
- Autonomous systems
- Algorithm design
- Data science tools / environments
- Large-scale numerical methods
- [Sparse linear algebra](#)

## Selected Projects

### [Image Segmentation](#)

- Developed [faster algorithm](#), decreased runtime 80-95% for segmenting large images
- Designed [new sparse method](#) for adjacency matrix at  $O(pixel)$  ops vs  $O(pixels^2)$  ops in scikit

### [Signal / Image Processing](#)

- Modeled [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](#)

- [Qualifying exam proposal](#) proved equivalence of two recent methods
- Demonstrated [new method scales better](#) than built-in MATLAB software

## Education

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

## Professional Experience

Researcher and Software Engineer - Apple (Internship)	2016
<ul style="list-style-type: none"><li>• Modeled various optimization methods to inform the direction of an autonomous systems project</li></ul>	
Assistant Instructor - CSU, East Bay	2011 - 2013
Middle School Teaching - 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