

Will Wright

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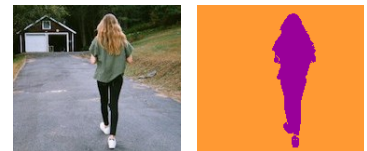
EDUCATION **PhD Mathematics - University of California, Davis** August 2019
Dissertation: [A Rapid Eigenvalue Method for Noisy Phase Retrieval](#)
Emphases:
◦ Large-scale numerical methods
◦ Machine learning applications
◦ Nonlinear optimization

MS Applied Math - California State University, East Bay June 2013
2012 - Tracewell Scholarship
2011 - Sabharwal Scholarship

BS Political Science & Philosophy - Penn State Dec 2006

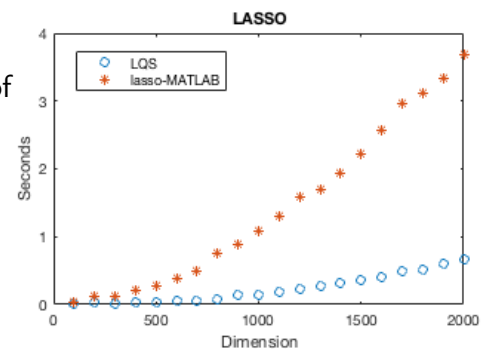
INTERNSHIP **Researcher & Software Engineer - Apple** June-Dec 2016
◦ prototyped optimization methods
◦ contributed performance-critical C++ code to team repository

RESEARCH PROJECTS **Image Segmentation**
◦ developed a *faster algorithm* than the *original algorithm*
◦ developed a *new method* for computing adjacency matrix, requiring $\mathcal{O}(\text{pixels})$ ops vs $\mathcal{O}(\text{pixels}^2)$ in *scikit-image*



Phase Retrieval Denoising
◦ developed efficient numerical methods to optimize a recent *phase retrieval algorithm*
◦ decreased computational costs and runtime by 50-90%
◦ demonstrated this algorithm is more accurate than a highly-cited *competitor algorithm*

LASSO & Quadratic Programming
◦ *Qualifying exam proposal* proved the equivalence of two recent methods (*smoothing* and *Lagrangian*)
◦ demonstrated this method (LQS, right) scales better than built-in MATLAB software



SOFTWARE SKILLS **Experienced** MATLAB, Python
Intermediate C++, Git, Julia

INTERESTS Running, brewing beer, boardgames, guitar, audiobooks and podcasts (e.g., the Expanse, Stormlight Archive, Freakonomics)