

# Will Wright

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CONTACT	Address: 825 Anderson Road, Davis CA 95616 Mobile: 530-760-9363 Email: <a href="mailto:william.everett.wright@gmail.com">william.everett.wright@gmail.com</a> Website: <a href="https://www.math.ucdavis.edu/~willwright/">https://www.math.ucdavis.edu/~willwright/</a> GitHub: <a href="https://github.com/will-wright">https://github.com/will-wright</a>	
EDUCATION	<b>PhD Mathematics - University of California, Davis</b> Dissertation: <a href="#">A Rapid Eigenvalue Method for Noisy Phase Retrieval</a> Emphases: <ul style="list-style-type: none"><li>Large-scale numerical methods</li><li>Machine learning applications</li><li>Nonlinear optimization</li></ul> <b>MS Applied Math - California State University, East Bay</b> 2012 - Tracewell Scholarship 2011 - Sabharwal Scholarship <b>BS Political Science &amp; Philosophy - Penn State</b>	August 2019         June 2013         Dec 2006
INTERNSHIP	<b>Researcher &amp; Software Engineer - Apple</b> <ul style="list-style-type: none"><li>prototyped optimization methods</li><li>contributed performance-critical C++ code to team repository</li></ul>	June-Dec 2016
RESEARCH PROJECTS	<b>Image Segmentation</b> <ul style="list-style-type: none"><li>developed a faster algorithm than the <i>original algorithm</i></li><li>developed a <i>new method</i> for computing adjacency matrix, requiring <math>\mathcal{O}(\text{pixels})</math> ops vs <math>\mathcal{O}(\text{pixels}^2)</math> in <i>scikit-image</i></li></ul> <b>Phase Retrieval Denoising</b> <ul style="list-style-type: none"><li>developed efficient numerical methods to optimize a recent <i>phase retrieval algorithm</i></li><li>decreased computational costs and runtime by 50-90%</li><li>demonstrated this algorithm is more accurate than a highly-cited <i>competitor algorithm</i></li></ul> <b>LASSO &amp; Quadratic Programming</b> <ul style="list-style-type: none"><li><i>Qualifying exam proposal</i> proved the equivalence of two recent methods (<i>smoothing</i> and <i>Lagrangian</i>)</li><li>demonstrated this method (LQS, right) scales better than built-in MATLAB software</li></ul>	 
SOFTWARE SKILLS	<b>Experienced</b> MATLAB, Python <b>Intermediate</b> C++, Git, Julia	
INTERESTS	Running, brewing beer, boardgames, guitar, audiobooks and podcasts (e.g., the Expanse, Stormlight Archive, Freakonomics)	