

# George He

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<b>Education</b>	<b><i>University of California, Berkeley</i></b> <b>Bachelor of Science in Electrical Engineering and Computer Science</b> <b>GPA: 3.977/4.0</b> Relevant Coursework: Algorithms for Computational Biology, Artificial Intelligence, Computer Security, Data Structures, Databases, Efficient Algorithms, Machine Learning, Machine Structures, Operating Systems	<b>8/2014 - 12/2016</b>
<b>Research Experience</b>	<b><i>UC Berkeley AmpLab</i></b> Adviser: Anthony Joseph, David Patterson <ul style="list-style-type: none"><li>• Develop filtering and visualization techniques for Mango, a data visualization interface that allows ad hoc queries and modification on genetic data</li><li>• Research applications of machine learning and distributed computing for Gnocchi, a project to determine phenotype-genotype associations</li></ul> <b><i>Machine Learning at Berkeley</i></b> <ul style="list-style-type: none"><li>• Conduct research in music recommendation using content-based analysis machine learning techniques</li><li>• Worked on improving featurization techniques through latent factor analysis and designing functional neural networks</li></ul> <b><i>UC Berkeley URAP</i></b> Adviser: Dawn Song <ul style="list-style-type: none"><li>• Used machine learning to determine encrypted malware</li><li>• Focus on polymorphic code analysis and detection of common encryption techniques</li></ul>	<b>1/2016 - Present</b>  <b>1/2016 - Present</b>  <b>8/2015 - 12/2015</b>
<b>Presentations</b>	<b>Improving Music Recommendation: Featurizing Audio</b> UC Berkeley Undergraduate Research Symposium <b>Mango: Data Exploration on Large Genomic Datasets</b> UC Berkeley Undergraduate Research Symposium	<b>5/2016</b>  <b>5/2016</b>
<b>Honors/Awards</b>	<b>American Statistical Association Datafest Overall Winner</b> <b>Cal Alumni Association Leadership Award</b> <b>National Merit Scholar</b>	<b>3/2016</b> <b>8/2014</b> <b>8/2014</b>
<b>Teaching Experience</b>	<b>Course Reader - Lab Assistant</b> EE16B Designing Informational Devices II, UC Berkeley <b>Lab Assistant</b> CS61A Structure & Interpretation of Computer Programs, UC Berkeley	<b>Spring 2016</b>  <b>Spring 2015</b>
<b>Industry Experience</b>	<b><i>Software Engineer Intern</i></b> <b>Google Inc, Mountain View, CA</b>	<b>5/2016 - 8/2016</b>

- Developed with: Golang, Polymer, C++, AngularJS, Javascript, Borg
- Search Indexing - Create experiment pipeline tools for machine-learning focused tests

***Data Science Consultant*** **1/2016 - 5/2016**

**Grand Rounds, San Francisco, CA**

- Developed with: Python, AWS, Spark
- Analysis of health care data to detect important signals in predicting patient cared tests using PCA, SVMs, and decision trees

***Software Engineer Intern*** **5/2015 - 8/2015**

**Google Inc, Portland, OR**

- Developed with: Dart, Python, Polymer, Google App Engine
- Lead project to create <https://dartpad.dartlang.org>
- Conducted UX and usability research in London

***Engineering Intern*** **6/2014 - 8/2014**

**Audience Inc, Mountain View, CA**

- Developed with: Python, Java, Android SDK, Robot
- Host software deployment - ensuring compatibility on eS704 and eS774 chips

<b>Societies and Organizations</b>	American Statistical Association, <i>Member</i>	2/2016 - Present
	Tau Beta Pi, <i>Member</i>	1/2016 - Present
	Eta Kappa Nu, <i>Bridge Officer (Historian)</i>	1/2015 - Present

**Technical Skills** *Experienced:* Python • Java • C • C++ • Javascript • Dart • Scala • Go  
*Familiar:* MySQL • Swift 2  
*Frameworks:* Apache Spark • Apache Hadoop • scikit-learn • TensorFlow

**Languages** *Fluent:* English, Chinese (Mandarin)  
*Proficient:* Spanish