

# RYAN QUAN

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<b>Education</b>	<b>Mailman School of Public Health, Columbia University</b> MPH, Public Health Informatics Relevant Coursework: Data Mining, Data Visualization, Methods in Biomedical Informatics	<b>May 2015</b>
	<b>University of California, Berkeley</b> B.S., Microbial Biology	<b>Dec 2011</b>

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<b>Skills</b>	<b>Predictive Analytics</b> Leveraging computational statistics and machine learning to extract information from data, build useful models, and drive better decisions.	<b>Health Domain Knowledge</b> Experience in analyzing large, unstructured datasets from insurance claims, electronic health records, genomics, and health policy experiments.	<b>Data Storytelling</b> Transforming raw numbers into narrative visualizations that communicate technical ideas and insights to non-technical audiences.

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<b>Technical</b>	<i>Languages:</i> R, Python, SAS, SQL	<i>ML Packages:</i> caret, scikit-learn	<i>Databases:</i> PostgreSQL, MongoDB
	<i>Version Control:</i> git	<i>Programs:</i> Excel, ArcGIS, Treeage	<i>Visualization:</i> ggplot2, seaborn, D3.js

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<b>Experience</b>	<b>Data Scientist Intern</b> Omada Health - San Francisco, CA	<b>June 2015 - present</b>
	<b>Research Associate</b> Columbia University, Dept. of Health Policy - New York, NY Coordinated statistical analyses of health policy studies in conjunction with stakeholders from NYC Department of Health and the US Census Bureau. Ran robust regression and cost-effectiveness models on high-performance computing cluster to validate a state-level health insurance study.	<b>Dec 2013 - May 2015</b>
	<b>Graduate Research Assistant</b> Columbia University, Dept. of Epidemiology - New York, NY Led R programming unit. Developed interactive R programs to optimize cleaning and analysis of high-throughput epigenomics data. Ran regression analyses of experimental and observational studies relating to obesity and cancer.	<b>Feb 2014 - May 2015</b>
	<b>Policy and Data Analyst</b> City Council - New York, NY Directed cost-effectiveness research essential to the introduction of new legislation (Intro 0214-2014). Managed database of over 25,000 voters. Applied supervised machine learning to optimize messaging campaigns. Developed front-facing web application using NationBuilder API. Automated statistical and GIS reports to improve operations and inform policy.	<b>Jan 2014 - Aug 2014</b>
	<b>Administrator</b> P&T Wealth Management - Cupertino, CA Leveraged Salesforce.com CRM to identify opportunities, needs, and gaps for health providers. Cleaned redundancies in database to optimize SQL queries. Led organization of seminars and events averaging 100+ attendees.	<b>Apr 2013 - Aug 2013</b>
	<b>Director of Program Development</b> Asian American Center - San Jose, CA Designed Affordable Care Act curriculum for low-income immigrant population. Created program evaluation framework to assess effectiveness of intervention. Organized community health event for 200+ attendees. □	<b>Sep 2012 - Apr 2013</b>
	<b>Founder and Chairman</b> VISION High School Outreach - Berkeley, CA Founded state-wide high school program to address issues in culture and higher education. Created and manage annual scholarship fund for Vietnamese high school students totaling \$20,000+.	<b>Jan 2012 - present</b>

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