RYAN QUAN

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Education

Mailman School of Public Health, Columbia University
MPH, Public Health Informatics **(Expected) May 2015**

Relevant Coursework: Computing with SAS, Decision Analysis, Data Mining, Data Visualization

University of California, Berkeley
B.S., Microbial Biology **Dec 2011**

Skills

Data Analysis and Visualization

Implementing machine learning to model complex data and uncover meaningful patterns in our society.

Programming and Databases

Optimizing the research pipeline by coding efficient query strings and mapping scripts.

Multidisciplinary Research

Bridging background in biology and finance to tackle questions ranging from health policy to the human genome.

Technical

R	Python	Stata
SAS	MySQL, SQLite	MongoDB
ArcGIS, QGIS	TreeAge	LaTeX

Experience

Research Associate, Muennig Lab
Columbia University, Department of Health Policy **Dec 2013 - present**

Direct research on the health effects of altruism and multi-generational families. Run robust regression and cost-effectiveness models on high-performance computing cluster to validate the Oregon Health Insurance Experiment.

Graduate Research Assistant, Genkinger Lab
Columbia University, Department of Epidemiology **Feb 2014 - present**

Lead R programming for methylation analysis of next-generation sequencing data. Conduct literature reviews and SAS analyses for obesity and cancer research, emphasis in epigenetics, metabolomics, and the microbiome. Write IRB protocols.

Policy and Data Analyst
New York City Council **Jan 2014 - Aug 2014**

Coordinated 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.

Administrator
P&T Wealth Management **Apr 2013 - Aug 2013**

Leveraged Salesforce.com CRM to identify opportunities, needs, and gaps. Cleaned redundancies in database to optimize SQL queries. Led organization of seminars and events averaging 100+ attendees.

Director of Program Development
Asian American Center of Santa Clara County **Sep 2012 - Apr 2013**

Designed Affordable Care Act curriculum for low-income immigrant population. Created program evaluation framework to assess effectiveness of intervention. Organized community health fair for over 200 attendees.

Founder and Chairman
VISION High School Outreach **Jan 2012 - present**

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+.

Undergraduate Researcher
UC Berkeley, Department of Nutritional Sciences **May 2010-Jan 2012**

Conducted wet lab experiments to elucidate the relationship between brown adipose tissue and obesity.