

Jane Liang

📍 Boston, MA, United States
✉ jwliang@g.harvard.edu
🏠 janewliang.github.io

Research Interests

Statistical genetics, machine learning, and computational algorithms.

Education

Aug 2017 – Present	Doctor of Philosophy in Biostatistics Harvard T.H. Chan School of Public Health <i>Boston, MA</i> Advisor: Giovanni Parmigiani, PhD Genomics training grant fellow ↗
Aug 2012 – Dec 2015	Bachelor of Arts in Statistics, with Honors University of California, Berkeley <i>Berkeley, CA</i> Honors thesis: <i>Comparing Dependence Measures Using Simulation Studies</i> Supervisor: Haiyan Huang, PhD



Work Experience

Oct 2016 – July 2017	Scientific Research Programmer Division of Biostatistics, Department of Preventive Medicine, University of Tennessee Health Science Center <i>Memphis, TN</i> Supervisor: Saunak Sen, PhD Matrix linear models for high throughput data Maintaining high performance computing systems for division
Jan – Sept 2016	Programming Analysis Associate Kaiser Permanente <i>Pleasanton, CA</i> Information technology and data management

Publications

- [1] Jane W Liang, Robert J Nichols, and Saunak Sen. Matrix linear models for high-throughput chemical genetic screens. *Genetics*, pages genetics–302299, 2019.
- [2] Alexandra H Bartlett, Jane W Liang, Jose Vladimir Sandoval-Sierra, Jay H Fowke, Eleanor M Simonick, Karen C Johnson, and Khyobeni Mozhui. Longitudinal study of leukocyte DNA methylation and biomarkers for cancer risk in older adults. *Biomarker research*, 7(1):10, 2019.
- [3] Hemant Gujar, Jane W Liang, Nicholas C Wong, and Khyobeni Mozhui. Profiling DNA methylation differences between inbred mouse strains on the illumina human infinium methylationepic microarray. *PloS one*, 13(3):e0193496, 2018.

Oral and Poster Presentations

June 23, 2017	Matrix linear models for high-throughput data (lightning talk)  JuliaCon  <i>Berkeley, CA</i>
Oct 5, 2014	PFT reference equations for Puerto Rican children Third Respiratory Congress: Challenges for a Healthy Breathing <i>San Juan, PR</i>




Teaching Experience

	Teaching Assistant Harvard T.H. Chan School of Public Health <i>Boston, MA</i>
Spring 2019	BST 210: Applied Regression Analysis
Fall 2019	BST 260: Introduction to Data Science
Spring 2020	BST 263: Statistical Learning

Honors and Awards

Dec 2015	Phi Beta Kappa University of California, Berkeley <i>Berkeley, CA</i>
Dec 2015	Distinction in General Scholarship University of California, Berkeley <i>Berkeley, CA</i>

Competitive Travel and Conference Support

June 20-24, 2017	JuliaCon  <i>Berkeley, CA</i> Diversity speaker travel support
Feb 8-10, 2017	Workshop on the Interface of Statistics and Optimization (WISO)  Statistical and Applied Mathematical Sciences Institute (SAMSI) <i>Durham, NC</i> Travel support
Oct 16-22, 2016	Short Course on Systems Genetics  The Jackson Laboratory <i>Bar Harbor, ME</i> Tuition scholarship

Skills

High proficiency: R, Julia, Python, C++, LaTeX, Git, Mercurial, Linux environments
Some proficiency: Java, MATLAB, web scraping