Jane Liang

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- 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 *Boston, MA* Advisor: Giovanni Parmigiani, PhD Genomics training grant fellow
Aug 2012 – Dec 2015	**Bachelor of Arts in Statistics, with Honors** University of California, Berkeley *Berkeley, CA* Honors thesis: *Comparing Dependence Measures Using Simulation Studies* 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 *Memphis, TN* Supervisor: Śaunak Sen, PhD Matrix linear models for high throughput data Maintaining high performance computing systems for division
Jan – Sept 2016	**Programming Analysis Associate** Kaiser Permanente *Pleasanton, CA* Information technology and data management

Publications

[1] **Jane W Liang**, Robert J Nichols, and Śaunak Sen. Matrix linear models for high-throughput chemical genetic screens. *Genetics*, 212(4):1063–1073, 2019.

[2] Alexandra H Bartlett, **Jane W Liang**, Jose Vladimir Sandoval-Sierra, Jay H Fowke, Eleanor M Simonsick, 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 ↗ *Berkeley, CA*
Oct 5, 2014	**PFT reference equations for Puerto Rican children** Third Respiratory Congress: Challenges for a Healthy Breathing *San Juan, PR*

Teaching Experience

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

Honors and Awards

Dec 2015	**Phi Beta Kappa** University of California, Berkeley *Berkeley, CA*
Dec 2015	**Distinction in General Scholarship** University of California, Berkeley *Berkeley, CA*

Competitive Travel and Conference Support

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

Skills

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