C. Jason Liang

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Education

2009–2015 **PhD, Biostatistics**, *University of Washington*, Seattle, WA.

2001–2005 **BA/MA, Mathematics**, *Johns Hopkins University*, Baltimore, MD.

Experience

Academic

2015–present **Post-doctoral research fellow**, *Fred Hutchinson Cancer Research Center*, Seattle, WA.
Advisors: Holly Janes and James Dai

2012–2015 **Statistical methods for evaluating longitudinal predictive accuracy**, *University of Washington*, Seattle, WA.
Research Assistant
Advisor: Patrick Heagerty

2009–2012 **Multi-ethnic study of atherosclerosis (MESA) Air**, *University of Washington*, Seattle, WA.
Research Assistant
Advisors: Elizabeth Brown and Lianne Sheppard

2010 Summer **Projection methods for approximating the conditional score using the empirical likelihood**, *University of Washington*, Seattle, WA.
Research Assistant
Advisor: Gary Chan

2002–2004 **Summer/Winter intern**, *Johns Hopkins Applied Physics Laboratory*, Laurel, MD.
Digital Hammurabi, Star Tracker, and LIDAR projects.

Finance

2006–2009 **Capital markets analyst**, *Capital One*, McLean, VA.
Regulatory advocacy and reform; structured finance deal execution and strategy.

2005 Summer **Summer intern**, *UBS Investment Bank*, Taipei, Taiwan.
Execution, pitching, and valuation of foreign stock issuances and merger/acquisition deals.

Teaching

Teaching Assistant

2012 Fall **Medical Biometry I (BIOST 511)**, *University of Washington*, Seattle, WA.
Instructor: David Yanez

2012 Winter **Regression Methods for Dependent Data (BIOST 571)**, *University of Washington*, Seattle, WA.
Instructor: Ken Rice

2004 Spring **Honors Linear Algebra (110.212)**, *Johns Hopkins University*, Baltimore, MD.
Instructor: Nitu Kitchloo

2003 Fall **Honors Multivariable Calculus (110.211)**, *Johns Hopkins University*, Baltimore, MD.
Instructor: Nitu Kitchloo

Courses and tutorials

2013 Summer **Summer computing and research (BIOST 563)**, *University of Washington*, Seattle, WA.
Course taught: Tools for collaboration and reproducibility: R, RStudio, Git, GitHub, RMarkdown
Faculty instructor: Ali Shojaie

2012 Summer **Summer computing and research (BIOST 563)**, *University of Washington*, Seattle, WA.
Course taught: Tools for collaboration and reproducibility: R, RStudio, Git, GitHub, RMarkdown
Faculty instructor: Ken Rice

Presentations

Talks

2015 Aug **Evaluating the predictive performance of biomarkers in survival models**, Seattle, WA.
2015 JSM

2015 Mar **Measures to evaluate biomarkers as predictors of incident cases**, Miami, FL.
2015 ENAR

2014 Aug **Describing the time-varying predictive performance of survival models**, Boston, MA.
2014 JSM

2012 Oct **Understanding and accounting for CT scanner differences in time and center**, *University of Washington*, Seattle, WA.
MESA Air External Scientific Advisory Committee Meeting

2011 Oct **Logic regression**, *University of Washington*, Seattle, WA.
UW Biostatistics Student Seminar

2010 Oct **An alternative method of quantifying coronary artery calcification**, *University of Washington*, Seattle, WA.
UW Biostatistics Student Seminar

2010 Sep **An alternative approach to scoring coronary artery calcium**, Chicago, IL.
MESA Air Steering Committee Meeting

Posters

2012 May **Predictive ability of alternative measures of coronary artery calcium**, *University of Washington*, Seattle, WA.
UW Department of Environmental and Occupational Health Sciences Student Research Day

2011 Sep **An alternative method for quantifying coronary artery calcification**, *University of Washington*, Leavenworth, WA.
UW Biostatistics Annual Retreat

2011 May **An alternative method for quantifying coronary artery calcification**, *University of Washington*, Seattle, WA.
UW Department of Environmental and Occupational Health Sciences Student Research Day

2010 Sep **Projection methods for approximating the conditional score: an empirical likelihood approach**, *University of Washington*, Leavenworth, WA.
UW Biostatistics Annual Retreat

Other

2012 Oct **University of Washington biostatistics alumni career panel**, *University of Washington*, Seattle, WA.
Moderator

Honors, Awards, Scholarships

2009–2012 Biostatistics, epidemiologic and bioinformatic training in environmental health (BEBTEH) grant trainee. Director: Lianne Sheppard.

Technical tools

Programming languages and libraries

Actively use **R, C/C++, JavaScript, LaTeX, HTML/CSS, RMarkdown, D3.js**

Conversant in **Bash, Python, MATLAB, Stata**

Software

Actively use **RStudio, Sublime Text, Git/GitHub, Microsoft Office, Unix/Linux, Windows**

Languages

English *Native*

Mandarin Chinese *Fluent*

Publications

CJ Liang, MJ Budoff, JD Kaufman, RA Kronmal, and ER Brown. An alternative method for quantifying coronary artery calcification: the multi-ethnic study of atherosclerosis (mesa). *BMC Medical Imaging*, 12(1):14, 2012.

DL Shuster, LJ Risler, CJ Liang, KM Rice, DD Shen, MF Hebert, KE Thummel, and Q Mao. Maternal-fetal disposition of glyburide in pregnant mice is dependent on gestational age. *Journal of Pharmacology and Experimental Therapeutics*, 350(2):425–434, 2014.

N Lee, H Duan, MF Hebert, CJ Liang, KM Rice, and J Wang. Taste of a pill organic cation transporter-3 (oct3) mediates metformin accumulation and secretion in salivary glands. *Journal of Biological Chemistry*, 289(39):27055–27064, 2014.

LM Backhus, F Farhood, CJ Liang, H Hao, TK Varghese, A Cheng, DH Au, DR Flum, and SB Zeliadt. Imaging surveillance and survival for surgically resected non-small-cell lung cancer. *Journal of Surgical Research (In Press)*, 2015.

CJ Liang and PJ Heagerty. A risk-based measure of time-varying prognostic discrimination for survival models. *Invited revision, under review*, 2015.