C. Jason Liang

liangcj@gmail.com
cjasonliang.com
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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

2016–present **Mathematical Statistician**, *National Institute of Allergy and Infectious Diseases*, Rockville, MD.
Biostatistics Research Branch

2015–2016 **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

2017 Apr **Methods for evaluating the time-varying prognostic performance of survival models**, *National Cancer Institute*, Rockville, MD.
Biostatistics Branch Semiar Series (Invited)

2016 Nov **Quantifying the time-varying prognostic performance of survival models**, *Penn State College of Medicine*, Hershey, PA.
Department of Public Health Sciences (Invited)

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 (Invited)

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

R, C/C++, JavaScript, Bash, LaTeX, HTML/CSS

Software

RStudio, Git/GitHub, Unix/Linux, Windows

Languages

English *Native*

Mandarin Chinese *Fluent*

Publications

Liang CJ and Heagerty PJ. A risk-based measure of time-varying prognostic discrimination for survival models. *Biometrics*, DOI:10.1111/biom.12628, 2016 (with discussion).

Backhus LM, Farhood F, **Liang CJ**, Hao H, Varghese TK, Cheng A, Au DH, FlumDR, Zeliadt SB. Imaging surveillance and survival for surgically resected nonsmall-cell lung cancer. *Journal of Surgical Research*, 200(1):171-176, 2016.

Lee N, Duan H, Hebert MF, **Liang CJ**, Rice KM, and Wang J. Taste of a pill: Organic cation transporter-3 (OCT3) mediates metformin accumulation and secretionin salivary glands. *Journal of Biological Chemistry*, 289(39):27055-27064, 2014.

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

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