

# C. Jason Liang

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## Education

- 2009–present **PhD, Biostatistics**, *University of Washington*, Seattle, WA.  
2001–2005 **BA/MA, Mathematics**, *Johns Hopkins University*, Baltimore, MD.

## Experience

### Academic

- 2012–present **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
- 2012–present **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

## **Presentations**

### Talks

- 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**

Interested in **Julia, SQL**

### Software

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

## ■ Languages

**English**

*Native*

**Mandarin Chinese**

*Fluent*

## ■ Publications

N Lee, H Duan, MF Hebert, CJ Liang, KM Rice, and J Wang. Taste of a pill: Organic cation transporter 3 mediates salivary gland accumulation and taste disturbance of metformin (submitted). 2014.

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 (submitted). 2014.