

## Jiehuan Sun

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### CONTACT INFORMATION

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Department of Biostatistics  
Yale University  
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### EDUCATION

**Yale University**, New Haven, Connecticut, USA

PhD., Biostatistics, Expected Graduation: May 2017

**Johns Hopkins Bloomberg School of Public Health**, Baltimore, Maryland, USA

ScM., Biostatistics, May 2012

**Huazhong University of Science and Technology**, Wuhan, Hubei, China

B.E., Bioinformatics, June 2010

### HONORS AND AWARDS

- Conference Travel Fellowship Award, Yale Graduate Student Assembly, 2016.
- Top 10 candidates nominated by Yale University for HHMI International Student Research Fellowships, 2015.
- Kocherlakota Award from the Department of Biostatistics at Johns Hopkins Bloomberg School of Public Health, 2011.

### PUBLICATIONS

Qiongshi Lu, Chentian Jin, **Jiehuan Sun**, Russell Bowler, Katerina Kechris, Naftali Kaminski, and Hongyu Zhao (2016). "Post-GWAS Prioritization Through Data Integration Provides Novel Insights on Chronic Obstructive Pulmonary Disease." *Statistics in Biosciences*, *in press*.

Qiongshi Lu, Yiming Hu, **Jiehuan Sun**, Yuwei Cheng, Kei-Hoi Cheung, Hongyu Zhao (2015). "A Statistical Framework to Predict Functional Non-Coding Regions in the Human Genome Through Integrated Analysis of Diverse Types of Annotation Data." *Scientific Reports* 5: 10576.

**Jiehuan Sun** and Hongyu Zhao (2015). "The application of sparse estimation of covariance matrix to quadratic discriminant analysis." *BMC bioinformatics* 16(1): 48.

**Jiehuan Sun**, Xintao Hu, Xiu Huang, Yang Liu, Kaiming Li, Xiang Li, Junwei Han, Lei Guo, Tianming Liu, and Jing Zhang (2012). "Inferring consistent functional interaction patterns from natural stimulus fMRI data." *NeuroImage* 61(4): 987-999.

Jian Yu, Xiaobin Xing, Lingyao Zeng, **Jiehuan Sun**, Wei Li, Han Sun, Ying He, Jing Li, Guoqing Zhang, Chuan Wang, Yixue Li, and Lu Xie (2012). "SyStemCell: a database populated with multiple levels of experimental data from stem cell differentiation research." *PloS one* 7(7): e35230.

### MANUSCRIPTS

#: Co-first author

Jose D. Herazo-Maya#, **Jiehuan Sun**#, Philip Molyneaux, Julian Villalba-Nunez, Argyrios Tzouveleakis, Qin Li, Heather Lynn, Brenda M. Juan-Guardela, Xiting Yan, George Michel, Nachele Aurelien, Kathleen O. Lindell, Melinda J. Klesen, Yingze Zhang, Hongyu Zhao, Joe GN Garcia, Imre Noth, Antje Prasse, Ziv Bar-Joseph, Kevin F. Gibson, Erica Herzog, Ivan O. Rosas, Toby Maher, and Naftali Kaminski. "A 52-gene signature in peripheral blood identifies a genomic profile associated with increased risk of mortality and poor disease outcomes in Idiopathic Pulmonary Fibrosis". (Under review at The Journal of the American Medical Association)

**Jiehuan Sun**, Jose D. Herazo-Maya, Xiu Huang, Naftali Kaminski, and Hongyu Zhao. “Distance-correlation based gene set analysis in longitudinal studies”. (Under review at Annals of Applied Statistics)

**Jiehuan Sun**, Jose D. Herazo-Maya, Naftali Kaminski, Hongyu Zhao, and Joshua L. Warren. “A dirichlet process mixture model for clustering longitudinal gene expression data”. (Under review at Journal of the Royal Statistical Society: Series C)

**Jiehuan Sun**, Joshua L. Warren, and Hongyu Zhao. “A Bayesian semiparametric factor analysis model for subtype identification”. (Under review at Statistical applications in genetics and molecular biology)

Molei Liu<sup>#</sup>, **Jiehuan Sun**<sup>#</sup>, Jose D. Herazo-Maya, Naftali Kaminski, and Hongyu Zhao. “Joint models for time-to-event data and longitudinal biomarkers of high dimension”.

**Jiehuan Sun**, Tianqi Liu, Jose D. Herazo-Maya, Kuang-Yao Lee, Naftali Kaminski, and Hongyu Zhao. “Sure Independence Feature Screening for Longitudinal Biomarkers and A Survival Outcome”.

#### MEMBERSHIP

- American Statistical Association

#### PRESENTATIONS

- “A Dirichlet Process Mixture Model for Clustering Longitudinal Gene Expression Data”, *Joint Statistical Meetings (JSM)* **July 30 - August 4, 2016.**
- **(Invited)** “Discovery of Novel Loci Associated with COPD by Pooling Information from Related Clinical Feature and Functional Annotation”, *Eastern North American Region (ENAR) Spring Meeting* **March 6-9, 2016.**
- “Discovery of Novel Loci Associated with COPD by Pooling Information from Related Clinical Feature and Functional Annotation”, *Bioinformatics Transition Workshop - SAMSI* **May 11-13, 2015.**
- “The application of sparse estimation of covariance matrix to quadratic discriminant analysis”, *The 29th New England Statistics Symposium* **April 24-25, 2015.**
- “Discovery of Novel Loci Associated with COPD by Pooling Information from Case-control status, Related Clinical Feature, and Functional Annotation”, *Statistical and Computational Challenges in Omics Data Integration workshop - SAMSI* **Feb. 16-17, 2015.**

#### TEACHING EXPERIENCE

**Yale University**, New Haven, Connecticut, USA

*Teaching Assistant* **Jan. 2015 - May. 2015**  
Course: Longitudinal and Multilevel Data Analysis.

*Teaching Assistant* **Jan. 2015 - May. 2015**  
Course: Theory of Survival Analysis.

*Teaching Assistant* **Sept. 2014 - Dec. 2014**  
Course: Categorical Data Analysis.

*Teaching Assistant* **Sept. 2013 - Dec. 2013**  
Course: Categorical Data Analysis.

**Johns Hopkins Bloomberg School of Public Health**, Baltimore, Maryland, USA

*Tutor* **Nov. 2011 - Jan. 2012**  
Course: Essentials Of Probability And Statistical Inference II: Statistical Inference.

*Teaching Assistant* **Sept. 2011 - May 2012**  
Course: Methods in Biostatistics, 650 series.