


Jihui Lee

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 722 West 168th Street, 6th floor, New York, NY 10032

Education

Columbia University , New York, NY PhD in Biostatistics	2018 (Expected)
<ul style="list-style-type: none">➢ Advisors : Jeff Goldsmith, Gen Li➢ Dissertation : Functional Data Approaches to Temporally Heterogeneous Data	
Seoul National University , Seoul, Korea MS in Statistics	2013
University of Seoul , Seoul, Korea BS in Statistics (Highest Honors); BA in Urban Administration	2011

Research Interests

- Functional Data Analysis
- Statistical Analysis of Complex Networks
- Data Mining and Machine Learning

Academic Honors

2017-2018	Huo Family Foundation Scholarship , Columbia University, New York, NY
2017	Travel Fellowship Award , Political Networks Workshops and Conference, Columbus, OH
2017	Distinguished Student Paper Award , Eastern North American Region (ENAR), Washington, DC
2016	First Runner-Up , Columbia Data Science Institute Poster Social and Competition, New York, NY
2013-2016	Biostatistics Fellowship , Columbia University, New York, NY
2012	Brain Korea 21 Scholarship , Seoul National University, Seoul, Korea
2009	Seoul Mayor's Fellowship , University of Seoul, Seoul, Korea
2007-2010	Academic Excellence Scholarship , University of Seoul, Seoul, Korea

Research Experience

06/2017 - Present	International Center for AIDS Care and Treatment Program (ICAP) Research Assistant	New York, NY
	<ul style="list-style-type: none">➢ Conduct statistical analysis and produce tables for Population-based HIV Impact Assessment (PHIA) project <div>SASSurvey Method</div>	
12/2014 - 11/2015	Simons Foundation Autism Research Initiative (SFARI) Research Assistant	New York, NY
	<ul style="list-style-type: none">➢ Conduct latent class analysis (LCA) to identify the patterns of abnormality in cognitive, behavioral, neurological, and anthropometric phenotypes among 16p11.2 deletion/duplication children➢ Simons Variation in Individuals Project (SVIP) quantitative analysis using linear mixed models <div>SASRMissing DataLCAMixed effects model</div>	

09/2012 - 05/2013	International Vaccine Institute (IVI) Research Assistant <ul style="list-style-type: none"> > Statistical analysis) Case fatality rate and length of hospital stay among patients with typhoid intestinal perforation in developing countries : A systematic literature review, 2014 > Data management and literature review regarding typhoid vaccine <div> R SAS Stata Simulation Efficacy Cost-Effectiveness Analysis </div>	Seoul, Korea
09/2010 - 02/2011	Office of Admissions, University of Seoul Data Analyst <ul style="list-style-type: none"> > Statistical analysis for publishing annual report <div> R SAS SPSS </div>	Seoul, Korea

Publications

Published

- > Julia P. Owen, Polina Bukshpun, Nicholas Pojman, Tony Thieu, Qixuan Chen, **Jihui Lee**, Debra D'Angelo, Orit A. Glenn, Jill V. Hunter, Jeffrey I. Berman, Timothy P. Roberts, Randy Buckner, Srikantan S. Nagarajan, Pratik Mukherjee, and Elliott H. Sherr. **"Brain MR Imaging Findings and Associated Outcomes in Carriers of the Reciprocal Copy Number Variation at 16p11. 2."** Radiology (2017) : 162934.

Submitted

- > **Jihui Lee**, Gen Li, and James D. Wilson. **"Varying-Coefficient Models for Dynamic Networks."** (Under Revision) Journal of Computational and Graphical Statistics. Preprint available at arXiv :1702.03632 (2017).
- > **Jihui Lee**, Gen Li, William F. Christensen, Gavin Collins, Matthew Seeley, Anton Bowden, David Fullwood, and Jeff Goldsmith. **"Functional Data Analyses of Gait Data Measured Using In-Shoe Sensors"** (Submitted) Statistics in Biosciences. Preprint available upon request (2017).

In Preparation

- > Yoonjung Lee, Jesse Hammond, and **Jihui Lee**. **"Detecting Changes in Congressional Twitter Networks."**
- > Anthony Diaz, **Jihui Lee**, Jaspreet Kaur, Arman Mushtaq, and Margaret Omatsone. **"Effect of Co-Administration of Long-Acting Insulin in Acute Management of Diabetic Ketoacidosis."**
- > **Jihui Lee**, Qixuan Chen, LeeAnne G. Snyder, Roger Vaughan, Raphael Bernier, Kyle J. Steinman, Ellen Hanson, Robin P. Goin-Kochel, Arianne S. Wallace, Jennifer Gerdt, Stephen Kanne, Leandra Berry, Anne Snow, Elliot Sherr, Christa L. Martin, David H. Ledbetter, John E. Spiro, and Wendy K. Chung. **"Examining Patterns of Abnormality in Multiple Phenotype Traits among 16p11.2 Deletion/ Duplication Children."**
- > **Jihui Lee**, Jeff Goldsmith, and Gen Li. **"Functional Data Approaches for Continuous-Time Event-Based Dynamic Networks."**
- > **Jihui Lee**, Gen Li, and Jeff Goldsmith. **"Functional Registration of Three-Dimensional Graphs."**

Teaching Experience

Instructor : Full responsibility of curriculum, lectures, homework and exams

Columbia University

New York, NY

- > Statistical Computing with SAS (P6110 : Master Level) Spring 2016 - 2017; Fall 2016 - 2017
- > Introduction to Biostatistics (P6103 : Master Level) Summer 2014 - 2017
 - Biostatistics Enrichment Summer Training Diversity Program (BEST)
 - Columbia Summer Institute for Training in Biostatistics (CSIBS)

Teaching Assistant : Holding regular office hours & tutorials and grading assignments

Columbia University

New York, NY

- > Theory of Statistical Inference 2 (P9110 : Ph.D. Level) Spring 2016 - 2017
- > Theory of Statistical Inference 1 (P9109 : Ph.D. Level) Fall 2014 - 2016
- > Linear Regression Models (P8111 : Master Level) Spring 2015
- > Introduction to Biostatistical Methods (P6104 : Master Level) Summer 2014, 2017

Seoul National University

Seoul, Korea

- > Statistical Seminar (Undergraduate Level) Spring & Fall 2012

University of Seoul

Seoul, Korea

- > Mathematical Statistics (Undergraduate Tutor) Fall 2011

Talks

07/31/2017 Joint Statistical Meetings (JSM)

Baltimore, MD

Varying-coefficient models for dynamic networks

JSM 2017 : Speed oral and poster presentations

07/28/2017 North American Social Networks (NASN) Conference

Washington, DC

Varying-coefficient models for dynamic networks

The 1st NASN of the International Networks for Social Network Analysis (INSNA)

06/16/2017 Political Networks (PolNet) Workshops and Conference

Columbus, OH

Varying-coefficient models for dynamic networks

The 10th Annual Political Networks Workshops and Conference

04/05/2017 Data Science Institute (DSI), Columbia University

New York, NY

Varying-coefficient models for dynamic networks

Data Science Day : Poster presentation

03/14/2017 Eastern North American Region (ENAR)

Washington, DC

Varying-coefficient models for dynamic networks

ENAR 2017 Spring Meeting

02/23/2017 Columbia University

New York, NY

The beauty of `ggplot2`

Columbia Biostatistics Computing Club (CBCC)

10/13/2016 Columbia University

New York, NY

Incorporating the Function-on-Scalar Regression with Curve Registration via Variational Bayes

Graduate Student Research Seminars (GSRS)

10/11/2016 Columbia University

New York, NY

A Family of Functional Exponential Random Graph Models for Dynamic Networks with Temporal

Heterogeneity

Functional Data Analysis Working Group (FDAWG)

09/29/2016 Data Science Institute (DSI), Columbia University

New York, NY

Functional Exponential Random Graph Models for Time-Varying Networks

DSI Poster Social and Competition (First runner-up)

03/29/2016	Columbia University <i>Functional Exponential Random Graph Models for Smoothly Transitioning Networks</i> <i>Functional Data Analysis Working Group (FDAWG)</i>	New York, NY
03/24/2016	Columbia University <i>Functional Exponential Random Graph Models for Smoothly Transitioning Networks</i> <i>Graduate Student Research Seminars (GSRS)</i>	New York, NY
03/03/2015	Columbia University <i>Weighted and Generalized Least Squares</i> <i>P8111 Linear Regression Models (Guest Lecturer)</i>	New York, NY
02/24/2015	Columbia University <i>Data Visualization with <code>ggplot2</code></i> <i>Functional Data Analysis Working Group (FDAWG)</i>	New York, NY

Skills

- > R, SAS, SPSS, C++, Python
- > \LaTeX , Microsoft Office
- > English, Korean

Membership

- > American Statistical Association (ASA)
- > Eastern North American Region (ENAR)
- > Korean Statistical Society (KSS)
- > International Chinese Statistical Association (ICSA)

Software Development

R Package 'VCERGM'

- > Implement varying-coefficient random graph models (VCERGMs) on dynamic networks
- > R package is available at <https://github.com/jihuilee/VCERGM>.

Academic Activities

Functional Data Analysis Working Group (FDAWG) Department of Biostatistics, Columbia University Active Member	New York, NY 2013 - Present
Graduate Student Research Seminar Department of Biostatistics, Columbia University Group Organizer	New York, NY 2016 - 2017

Service

ENAR 2017 Spring Meeting Poster Judging Coordination	Washington, DC 03/12/2017
Doctoral Program Subcommittee on Biostatistics (DPSOB) , Columbia University Student Representative	New York, NY 2016 - Present
Biostatistics Student Cohort (BSC) , Columbia University Ph.D. Representative	New York, NY 2014 - Present
KSS Spring Conference of Probability and Statistics Conference Coordination : Hosting international participants as a translator	Seoul, Korea 07/01/2017 - 07/02/2017

Stony Brook University

Exchange Program in Applied Mathematics and Statistics (AMS)

Stony Brook, NY

Spring 2010

Uijeongbu Girls' High School

Mathematics Tutor

Uijeongbu, Gyeonggi, Korea

Summer & Winter 2008

Department of Statistics, University of Seoul

Departmental Student Representative

Seoul, Korea

2007 - 2009