

Jihui Lee

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Education

Columbia University , New York, NY PhD in Biostatistics	2018
<ul style="list-style-type: none">➢ Advisors : Dr. Jeff Goldsmith and Dr. Gen Li➢ Dissertation : Varying-Coefficient Models and Functional Data Analyses for Dynamic Networks and Wearable Device 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





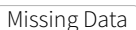


Research Interests

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

Academic Honors

2018	Presidential Teaching Award for Graduate Student Instructors , Columbia University, NY
2018	Travel Fellowship Award (NSF) , Political Networks Workshops and Conference, Arlington, VA
2017-2018	Huo Family Foundation Scholarship , Columbia University, New York, NY
2017	Travel Fellowship Award (NSF) , 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 - 07/2018	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> </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>    </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."** (Submitted) Computational Statistics & Data Analysis. Preprint available at arXiv :1702.03632 (2017).
*A version of this manuscript won an ENAR 2017 Student Paper Award.
- 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."** (Under Revision) 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 Gerds, 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 - 2018; Fall 2016 - 2017; Summer 2018
- Introduction to Biostatistics (P6103 : Master Level) Summer 2014 - 2018
 - 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

- | | | |
|------------|--|----------------|
| 06/08/2017 | Political Networks (PolNet) Workshops and Conference
<i>Detecting Changes in Congressional Twitter Networks</i>
<i>The 11th Annual Political Networks Workshops and Conference</i> | Arlington, VA |
| 04/02/2018 | Columbia University
<i>Functional Data Approaches to Temporally Heterogeneous Data</i>
<i>Doctoral Research Symposium</i> | New York, NY |
| 03/25/2018 | Eastern North American Region (ENAR)
<i>Functional Data Analyses of Gait Data</i>
<i>ENAR 2018 : Poster presentation</i> | Atlanta, GA |
| 03/21/2018 | Columbia University
<i>Functional Data Analyses of Gait Data</i>
<i>Graduate Student Research Seminars (GSRS)</i> | New York, NY |
| 02/06/2018 | Columbia University
<i>Functional Data Analyses of Gait Data</i>
<i>Functional Data Analysis Working Group (FDAWG)</i> | New York, NY |
| 07/31/2017 | Joint Statistical Meetings (JSM)
<i>Varying-coefficient models for dynamic networks</i>
<i>JSM 2017 : Speed oral and poster presentations</i> | Baltimore, MD |
| 07/28/2017 | North American Social Networks (NASN) Conference
<i>Varying-coefficient models for dynamic networks</i>
<i>The 1st NASN of the International Networks for Social Network Analysis (INSNA)</i> | Washington, DC |
| 06/16/2017 | Political Networks (PolNet) Workshops and Conference
<i>Varying-coefficient models for dynamic networks</i>
<i>The 10th Annual Political Networks Workshops and Conference</i> | Columbus, OH |
| 04/05/2017 | Data Science Institute (DSI), Columbia University
<i>Varying-coefficient models for dynamic networks</i>
<i>Data Science Day : Poster presentation</i> | New York, NY |
| 03/14/2017 | Eastern North American Region (ENAR)
<i>Varying-coefficient models for dynamic networks</i>
<i>ENAR 2017 : Contributed papers</i> | Washington, DC |

02/23/2017	Columbia University <i>The beauty of <code>ggplot2</code></i> <i>Columbia Biostatistics Computing Club (CBCC)</i>	New York, NY
10/13/2016	Columbia University <i>Incorporating the Function-on-Scalar Regression with Curve Registration via Variational Bayes</i> <i>Graduate Student Research Seminars (GSRS)</i>	New York, NY
10/11/2016	Columbia University <i>A Family of Functional Exponential Random Graph Models for Dynamic Networks with Temporal Heterogeneity</i> <i>Functional Data Analysis Working Group (FDAWG)</i>	New York, NY
09/29/2016	Data Science Institute (DSI), Columbia University <i>Functional Exponential Random Graph Models for Time-Varying Networks</i> <i>DSI Poster Social and Competition (First runner-up)</i>	New York, NY
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 - 2018

Graduate Student Research Seminar

Department of Biostatistics, Columbia University

New York, NY
2016 - 2017

Group Organizer

Stony Brook University

Exchange Program in Applied Mathematics and Statistics (AMS)

Stony Brook, NY

Spring 2010

Service

Healthcare Data Analytics Career Panel, Columbia University

Career Panel

New York, NY

04/25/2018

ENAR 2018 Spring Meeting

Session Chair : Electronic Health Records

Atlanta, GA

03/28/2018

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 - 2018

Biostatistics Student Cohort (BSC), Columbia University

Ph.D. Representative

New York, NY

2014 - 2018

KSS Spring Conference of Probability and Statistics

Conference Coordination : Hosting international participants as a translator

Seoul, Korea

07/01/2017 - 07/02/2017

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