






# Jihui Lee

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## Education

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

## Research Experiences

12/2014 11/2015	<b>Simons Foundation Autism Research Initiative (SFARI)</b> Research Assistant <ul style="list-style-type: none"><li>&gt; Conduct latent class analysis (LCA) to identify the patterns of abnormality in cognitive, behavioral, neurological, and anthropometric phenotypes among 16p11.2 deletion/duplication children</li><li>&gt; Simons Variation in Individuals Project (SVIP) quantitative analysis using linear mixed models</li></ul> <div><div>SAS</div><div>R</div><div>Missing Data</div><div>LCA</div><div>Mixed effects model</div></div>	New York, NY
09/2012 05/2013	<b>International Vaccine Institute (IVI)</b> Research Assistant <ul style="list-style-type: none"><li>&gt; Statistical analysis) Case fatality rate and length of hospital stay among patients with typhoid intestinal perforation in developing countries : A systematic literature review, 2014</li><li>&gt; Data management and literature review regarding typhoid vaccine</li></ul> <div><div>R</div><div>SAS</div><div>Stata</div><div>Simulation</div><div>Efficacy</div><div>Cost-Effectiveness Analysis</div></div>	Seoul, Korea
09/2010 02/2011	<b>Office of Admissions, University of Seoul</b> Data Analyst <ul style="list-style-type: none"><li>&gt; Statistical analysis for publishing annual report</li></ul> <div><div>R</div><div>SAS</div><div>SPSS</div></div>	Seoul, Korea

## Publications

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### 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 (Preprint)

- > **Jihui Lee**, Gen Li, and James D. Wilson. **“Varying-coefficient models for dynamic networks.”** arXiv preprint arXiv :1702.03632 (2017).

## Teaching Experiences

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### 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

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#### **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	<b>Data Science Institute (DSI), Columbia University</b> <i>Varying-coefficient models for dynamic networks</i> <i>Data Science Day : Poster presentation</i>	New York, NY
03/14/2017	<b>Eastern North American Region (ENAR)</b> <i>Varying-coefficient models for dynamic networks</i> <i>ENAR 2017 Spring Meeting</i>	Washington, DC
02/23/2017	<b>Columbia University</b> <i>The beauty of <code>ggplot2</code></i> <i>Columbia Biostatistics Computing Club (CBCC)</i>	New York, NY
10/13/2016	<b>Columbia University</b> <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	<b>Columbia University</b> <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	<b>Data Science Institute (DSI), Columbia University</b> <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	<b>Columbia University</b> <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	<b>Columbia University</b> <i>Functional Exponential Random Graph Models for Smoothly Transitioning Networks</i> <i>Graduate Student Research Seminars (GSRS)</i>	New York, NY
03/03/2015	<b>Columbia University</b> <i>Weighted and Generalized Least Squares</i> <i>P8111 Linear Regression Models (Guest Lecturer)</i>	New York, NY
02/24/2015	<b>Columbia University</b> <i>Data Visualization with <code>ggplot2</code></i> <i>Functional Data Analysis Working Group (FDAWG)</i>	New York, NY

## Skills

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- › R, SAS, SPSS, C++, Python
- ›  $\text{\LaTeX}$ , Microsoft Office
- › English, Korean

## Membership

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

## Software Development

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### 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

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### **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

## Extra-Curricular Activities

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### **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