

# JIHUI LEE

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## EDUCATION

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<b>Columbia University</b> , New York, NY Ph.D. in Biostatistics	(Expected) 2018
<b>Seoul National University</b> , Seoul, Korea M.S. in Statistics	2013
<b>University of Seoul</b> , Seoul, Korea B.S. in Statistics (Highest Honors) B.A. in Urban Administration	2011

## RESEARCH INTERESTS

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

## ACADEMIC HONORS & GRANTS

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- Political Networks Fellowship Award, 2017
- Eastern North American Region (ENAR) Distinguished Student Paper Award, 2017
- First runner-up, Data Science Institute (DSI) Poster Social and Competition, 2016
- Biostatistics Fellowship, Columbia University, 2013 - 2016
- Brain Korea 21 Scholarship, 2012
- Seoul Mayor's Fellowship, 2009
- Academic Excellence Scholarship, University of Seoul, 2007 - 2010

## RESEARCH EXPERIENCE

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**Simons Foundation Autism Research Initiative (SFARI)**      December 2014 - November 2015  
*Research Assistant*      *New York, NY*

- Latent class analysis to identify patterns of abnormality in cognitive, behavioral, neurological, and anthropometric phenotypes among 16p11.2 deletion/duplication children
- Simons Variation in Individuals Project (SVIP) qualitative analysis using linear mixed models

**International Vaccine Institute (IVI)**      September 2012 - May 2013  
*Research Assistant*      *Seoul, Korea*

- (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

- Statistical analysis for publishing annual report

## TEACHING EXPERIENCE

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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
- Introduction to Biostatistics (P6103: Master Level) Summer 2014 - 2017
  - The Biostatistics Enrichment Summer Training Diversity Program (BEST) and 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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### CONTRIBUTED

#### **Joint Statistical Meetings (JSM), Baltimore, MD**

July 31, 2017

*Varying-coefficient models for dynamic networks*

JSM 2017: Speed oral and poster presentations

#### **North American Social Networks (NASN) Conference, Washington, DC**

July 28, 2017

*Varying-coefficient models for dynamic networks*

The 1<sup>st</sup> NASN of the International Networks for Social Network Analysis (INSNA)

#### **Political Networks (PolNet) Workshops and Conference, Columbus, OH**

June 16, 2017

*Varying-coefficient models for dynamic networks*

The 10<sup>th</sup> Annual Political Networks Workshops and Conference

#### **Data Science Institute (DSI), Columbia University, New York, NY**

April 05, 2017

*Varying-coefficient models for dynamic networks*

Data Science Day: Poster presentation

#### **Eastern North American Region (ENAR), Washington, DC**

March 14, 2017

*Varying-coefficient models for dynamic networks*

ENAR 2017 Spring Meeting

**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*)

September 29, 2016

## INVITED

**Columbia University**, New York, NY  
*The beauty of ggplot2*  
Columbia Biostatistics Computing Club (CBCC)

February 23, 2017

**Columbia University**, New York, NY  
*Incorporating the Function-on-Scalar Regression with Curve Registration via Variational Bayes*  
Graduate Student Research Seminars (GSRS)

October 13, 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)

October 11, 2016

**Columbia University**, New York, NY  
*Functional Exponential Random Graph Models for Smoothly Transitioning Networks*  
Functional Data Analysis Working Group (FDAWG)

March 29, 2016

**Columbia University**, New York, NY  
*Functional Exponential Random Graph Models for Smoothly Transitioning Networks*  
Graduate Student Research Seminars (GSRS)

March 24, 2016

**Columbia University**, New York, NY  
*Weighted and Generalized Least Squares*  
P8111 Linear Regression Models (Guest Lecturer)

March 03, 2015

**Columbia University**, New York, NY  
*Data Visualization with ggplot2*  
Functional Data Analysis Working Group (FDAWG)

February 24, 2015

## SKILLS

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R, SAS, SPSS, L<sup>A</sup>T<sub>E</sub>X, Microsoft Office

## 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)**  
*Active Member*  
Department of Biostatistics, Columbia University

September 2013 - Present

**Graduate Student Research Seminars (GSRS)**  
*Group Organizer*  
Department of Biostatistics, Columbia University

January 2016 - August 2017

## EXTRA-CURRICULAR ACTIVITIES

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<b>Eastern North American Region (ENAR)</b> , Washington, DC <i>Poster Judging Coordination</i> ENAR 2017 Spring Meeting	March 12, 2017
<b>Columbia University</b> , New York, NY <i>Doctoral Program Subcommittee on Biostatistics (DPSOB)</i> : Student Representative	2016 - 2017
<b>Columbia University</b> , New York, NY <i>Biostatistics Student Cohort (BSC)</i> : Ph.D. Representative	2014 - Present
<b>Korean Statistical Society</b> , Seoul, Korea <i>Conference Coordination: Hosting international participants as a translator</i> KSS Spring Conference of Probability and Statistics	July 1-2, 2011
<b>State University of New York at Stony Brook</b> , Stony Brook, NY <i>Exchange Program</i> in Applied Mathematics and Statistics (AMS)	Spring 2010
<b>Uijeongbu Girls' High School</b> , Uijeongbu, Gyeonggi, Korea <i>Mathematics Tutor</i>	Summer & Winter 2008
<b>University of Seoul</b> , Seoul, Korea <i>Departmental Student Representative</i> , Department of Statistics	2007 - 2009