Jihui **Lee**

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

+1-917-929-1479 | jihui.lee@columbia.edu | jihuilee.github.io | jihuilee

Education

Columbia University   *New York, NY*

Ph.D. in Biostatistics   *2018 (Expected)*

Seoul National University   *Seoul, Korea*

M.S. in Statistics   *2013*

University of Seoul   *Seoul, Korea*

B.S. in Statistics   *2011*

- Highest honors
- B.A. in Urban Administration

Research Interests

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

Honors & Grants

2017-2018	**Huo Family Foundation Scholarship**, Columbia University	*New York, NY*
2017	**Political Networks Fellowship Award**, Political Networks (PolNet) 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 (DSI) 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 Experiences

Simons Foundation Autism Research Initiative (SFARI)   *New York, NY*

Research Assistant   *December 2014 - November 2015*

- Latent class analysis 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

International Vaccine Institute (IVI)   *Seoul, Korea*

Research Assistant   *September 2012 - May 2013*

- 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

Office of Admissions, University of Seoul   *Seoul, Korea*

Data Analyst   *September 2010 - February 2011*

- Statistical analysis for publishing annual report

Teaching Experiences

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

Columbia University   *New York, NY*

Preceptor
- 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*

Teaching Assistant
- 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*

Teaching Assistant
- Statistical Seminar (Undergraduate Level)   Spring & Fall 2012

University of Seoul   *Seoul, Korea*

Undergraduate Tutor
- Mathematical Statistics (Undergraduate Level)   Fall 2011

Talks

Contributed

Joint Statistical Meetings (JSM)   *Baltimore, MD*

JSM 2017: Speed oral and poster presentations   *July 31, 2017*

Varying-coefficient models for dynamic networks

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

The 1st NASN of the International Networks for Social Network Analysis (INSNA): Contributed
Presentation   *July 28, 2017*

Varying-coefficient models for dynamic networks

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

The 10th Annual Political Networks Workshops and Conference: Contributed Presentation   *June 16, 2017*

Varying-coefficient models for dynamic networks

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

Data Science Day: Poster presentation   *April 05, 2017*

Varying-coefficient models for dynamic networks

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

ENAR 2017 Spring Meeting: Contributed Presentation   *March 14, 2017*

Varying-coefficient models for dynamic networks

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

DSI Poster Social and Competition (First runner-up)   *September 29, 2016*

Functional Exponential Random Graph Models for Time-Varying Networks

Invited

Columbia Biostatistics Computing Club (CBCC), Columbia University *New York, NY*

<small>INVITED PRESENTATION</small> *February 23, 2016*

The beauty of `ggplot2`

Graduate Student Research Seminars (GSRS), Columbia University *New York, NY*

<small>INVITED PRESENTATION</small> *October 13, 2016*

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

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

<small>INVITED PRESENTATION</small> *October 11, 2016*

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

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

<small>INVITED PRESENTATION</small> *March 29, 2016*

Functional Exponential Random Graph Models for Smoothly Transitioning Networks

Graduate Student Research Seminars (GSRS), Columbia University *New York, NY*

<small>INVITED PRESENTATION</small> *March 24, 2016*

Functional Exponential Random Graph Models for Smoothly Transitioning Networks

Department of Biostatistics, Columbia University *New York, NY*

<small>P8111 LINEAR REGRESSION MODELS (GUEST LECTURER)</small> *March 03, 2015*

Weighted and Generalized Least Squares

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

<small>INVITED PRESENTATION</small> *February 24, 2015*

Data Visualization with `ggplot2`

Skills

- Programming Languages: R, SAS, SPSS, C++, Python
- LaTeX, Microsoft Office

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

Department of Biostatistics, Columbia University *New York, NY*

<small>FUNCTIONAL DATA ANALYSIS WORKING GROUP (FDAWG)</small> *2013 - Present*

Active Member

Department of Biostatistics, Columbia University *New York, NY*

<small>GRADUATE STUDENT RESEARCH SEMINARS (GSRS)</small> *2016 - 2017*

Group Organizer

Extra-Curricular Activities

Department of Biostatistics, Columbia University *New York, NY*

<small>BIOSTATISTICS STUDENT COHORT (BSC)</small> *2017 - Present*

BSC Student Leader

Eastern North American Region (ENAR)

ENAR 2017 SPRING MEETING

Poster Judging Coordination

Washington, DC

March 12, 2017

Department of Biostatistics, Columbia University

DOCTORAL PROGRAM SUBCOMMITTEE ON BIOSTATISTICS (DPSOB)

Student Representative

New York, NY

2016 - Present

Department of Biostatistics, Columbia University

BIOSTATISTICS STUDENT COHORT (BSC)

Ph.D. Representative

New York, NY

2014 - Present

Korean Statistical Society(KSS)

KSS SPRING CONFERENCE OF PROBABILITY AND STATISTICS

Conference Coordination: Hosting international participants as a translator

Busan, Korea

July 1 - 2, 2011

State University of New York at Stony Brook

EXCHANGE PROGRAM

Applied Mathematics and Statistics (AMS)

Stony Brook, NY

Spring 2010

Uijeongbu Girls' High School

SUMMER & WINTER MATHEMATICS PROGRAM

Mathematics Tutor

Uijeongbu, Gyeonggi, Korea

Summer & Winter 2008

Department of Statistics, University of Seoul

STUDENT COUNCIL

Departmental Student Representative

Seoul, Korea

2007 - 2009