Jihui **Lee**

 github.com/jihuilee   jihuilee.com   linkedin.com/in/jihuilee
 +1 917 929 1479   jihui.lee@columbia.edu
 402 East 67th Street, Room LA-006C, New York, NY 10065

Research Interests

> Functional Data Analysis
> Statistical Analysis of Complex Networks
> Digital Phenotyping
> Deep Learning

Education

Columbia University, New York, NY   2018
PhD in Biostatistics

> Dissertation : Varying-Coefficient Models and Functional Data Analyses for Dynamic
> Networks and Wearable Device Data
> Advisors : Dr. Jeff Goldsmith and Dr. Gen Li

Seoul National University, Seoul, Korea   2013
MS in Statistics

                                                                                   2011
University of Seoul, Seoul, Korea
BS in Statistics (Highest Honors) ; BA in Urban Administration

Academic Appointments

10/2018 - Present	**Postdoctoral Associate** Department of Healthcare Policy & Research, Weill Cornell Medicine > Division of Biostatistics & Epidemiology	New York, NY

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 Experiences

06/2017 - 07/2018	**International Center for AIDS Care and Treatment Program (ICAP)** Research Assistant	New York, NY

> Conduct statistical analysis and produce tables for Population-based HIV Impact Assessment (PHIA) project

SAS   Survey Method

12/2014 - 11/2015	**Simons Foundation Autism Research Initiative (SFARI)** Research Assistant	New York, NY

> 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

SAS   R   Missing Data   LCA   Mixed effects model

09/2012 - 05/2013	**International Vaccine Institute (IVI)** 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

R   SAS   Stata   Simulation   Efficacy   Cost-Effectiveness Analysis

09/2010 - 02/2011	**Office of Admissions, University of Seoul** Data Analyst	Seoul, Korea

> Statistical analysis for publishing annual report

R   SAS   SPSS

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

> **Jihui Lee**, Yoonjung Lee, and Jesse Hammond. **"Detecting Changes in Congressional Twitter Networks."**

> **Jihui Lee**, Jeff Goldsmith, and Gen Li. **"Multilevel Stochastic Blockmodel for Dynamic 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."**

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

Presentations

06/08/2017 **Political Networks (PolNet) Workshops and Conference**   Arlington, VA
            Detecting Changes in Congressional Twitter Networks
            The 11th Annual Political Networks Workshops and Conference

04/02/2018 **Columbia University**   New York, NY
            Functional Data Approaches to Temporally Heterogeneous Data
            Doctoral Research Symposium

03/25/2018 **Eastern North American Region (ENAR)**   Atlanta, GA
            Functional Data Analyses of Gait Data
            ENAR 2018 : Poster presentation

03/21/2018 **Columbia University**   New York, NY
            Functional Data Analyses of Gait Data
            Graduate Student Research Seminars (GSRS)

02/06/2018 **Columbia University**   New York, NY
            Functional Data Analyses of Gait Data
            Functional Data Analysis Working Group (FDAWG)

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 : Contributed papers	

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

03/24/2016	**Columbia University**	New York, NY
	Functional Exponential Random Graph Models for Smoothly Transitioning Networks	
	Graduate Student Research Seminars (GSRS)	

03/03/2015	**Columbia University**	New York, NY
	Weighted and Generalized Least Squares	
	P8111 Linear Regression Models (Guest Lecturer)	

02/24/2015	**Columbia University**	New York, NY
	Data Visualization with `ggplot2`	
	Functional Data Analysis Working Group (FDAWG)	

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.

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)

Academic Activities

Functional Data Analysis Working Group (FDAWG)   New York, NY
Department of Biostatistics, Columbia University   2013 - 2018
Active Member

Graduate Student Research Seminar   New York, NY
Department of Biostatistics, Columbia University   2016 - 2017
Group Organizer

Stony Brook University   Stony Brook, NY
Exchange Program in Applied Mathematics and Statistics (AMS)   Spring 2010

Service

Healthcare Data Analytics Career Panel, Columbia University   New York, NY
Career Panel   04/25/2018

ENAR 2018 Spring Meeting   Atlanta, GA
Session Chair : Electronic Health Records   03/28/2018

ENAR 2017 Spring Meeting   Washington, DC
Poster Judging Coordination   03/12/2017

Doctoral Program Subcommittee on Biostatistics (DPSOB), Columbia University   New York, NY
Student Representative   2016 - 2018

Biostatistics Student Cohort (BSC), Columbia University   New York, NY
Ph.D. Representative   2014 - 2018

KSS Spring Conference of Probability and Statistics   Seoul, Korea
Conference Coordination : Hosting international participants as a translator   07/01/2017 - 07/02/2017

Uijeongbu Girls' High School   Uijeongbu, Gyeonggi, Korea
Mathematics Tutor   Summer & Winter 2008

Department of Statistics, University of Seoul   Seoul, Korea
Departmental Student Representative   2007 - 2009