Jihui **Lee**

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• 402 East 67th Street, New York, NY 10065

Research Interests

- > Functional Data Analysis
- > Statistical Analysis of Complex Networks
- > Analysis of Mobile and Wearable Device Data
- > 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

Postdoctoral Associate

New York, NY

- Present

Department of Healthcare Policy & Research, Weill Cornell Medicine

> Division of Biostatistics & Epidemiology

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

06/2017 International Center for AIDS Care and Treatment Program (ICAP) New York, NY -07/2018 Research Assistant > Conduct statistical analysis and produce tables for Population-based HIV Impact Assessment (PHIA) project SAS Survey method 12/2014 Simons Foundation Autism Research Initiative (SFARI) New York, NY - 11/2015 Research Assistant > Conduct latent class analysis (LCA) to identify the patterns of abnormality in cognitive, behavioral, neurological, and anthropometric phenotypes among 16p11.2 deletion/duplication > Simons Variation in Individuals Project (SVIP) quantitative analysis using linear mixed models SAS R Missing Data LCA Mixed effects model International Vaccine Institute (IVI) 09/2012 Seoul, Korea - 05/2013 Research Assistant > 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-cffectiveness analysis

09/2010 Office of Admissions, University of Seoul

Seoul, Korea

- 02/2011

Data Analyst

> Statistical analysis for publishing annual report R SAS SPSS

Publications

Published

- > **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."** Statistics in Biosciences (2018).
- > 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.

In Preparation

- > Jihui Lee, Jesse Hammond, and Yoonjung Lee. "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

06/08/2018 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.

R Package 'DigiPheno'

- > Preprocess, visualize, and analyze smartphone or wearable device data
- > R package is available at https://github.com/jihuilee/DigiPheno.

Skills	Membership

- > R, SAS, SPSS, C++, Python
- > LATEX, Microsoft Office
- > English, Korean

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

Academic Activities

Weill Cornell Medicine Biostatistics Computing Club

Department of Healthcare Policy & Research, Weill Cornell Medicine

Founder & Meeting Organizer

New York, NY 2018 - Present

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

Group Organizer

New York, NY 2016 - 2017

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