

Lucy F. Robinson

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EMPLOYMENT

- Drexel University School of Public Health**, Department of Epidemiology and Biostatistics
Assistant Professor of Biostatistics 2011-
- Johns Hopkins University**, Department of Applied Mathematics and Statistics
Assistant Research Professor 2009-2011
- Columbia University**, Department of Statistics
Teaching Assistant 2004-2009

EDUCATION

- Columbia University**, Department of Statistics
Doctor of Philosophy in Statistics 2009
Advisor: Professor Martin Lindquist
Research: *Statistical methods for functional MRI data*
- Columbia University**, Department of Statistics
Master of Arts in Statistics 2005
- Barnard College, Columbia University**
Bachelor of Arts in Mathematics-Statistics (Cum Laude) 2003

TEACHING

- Columbia University**
Instructor
Introduction to Statistical Reasoning, Introduction to Statistics 2006, 2007
- Johns Hopkins University**,
Professor
Applied Statistics and Data Analysis, Mathematical Modeling and Consulting,
Statistical Analysis II, Chance and Risk 2009-2011
- Drexel University Dornsife School of Public Health Philadelphia**
Professor
Readings in Biostatistics, Intermediate Biostatistics I, Intermediate Biostatistics II,
Advanced Statistical Computing, Design and Analysis of Epidemiologic Studies 2011-

PUBLICATIONS

'Detecting Time-Dependent Structure in Network Data via a New Class of Latent Process Models'

L.F. Robinson, and C.E. Priebe

In Submission

'An Evaluation of Changes in Opinion from an Expert Workshop on Turbidity in Drinking Water Supplies and Acute Gastrointestinal Illness'

A.Rai, P.L. Gurian, M.C. Kondo, I.Zakeri, **L.F. Robinson**, A.J. De Roos

Accepted to Int. J. of Environmental Technology and Management

'Neighborhood price of healthier food relative to unhealthy food and its association with type 2 diabetes and insulin resistance: The multi-ethnic study of atherosclerosis,'

D.M. Kern, A.H. Auchincloss, M.F. Stehr, A.V. Diez Roux, K.A. Moore, G.P. Kanter, **L.F. Robinson** (2018)

Preventive Medicine, 106

'Neighborhood prices of healthier and unhealthier foods and associations with diet quality: the MultiEthnic Study of Atherosclerosis. '

D.M. Kern, A.H. Auchincloss, M.F. Stehr, A.V. Diez Roux, K.V. Moore LV, G. Pham-Kanter and **LF Robinson (2017)**

Int J Environ Res Public Health, 11

'Healthy and Unhealthy Food Prices across Neighborhoods and Their Association with Neighborhood Socioeconomic Status and Proportion Black/Hispanic.'

Kern DM*, Auchincloss AH, **Robinson LF**, Stehr M, Pham-Kanter. (2017)

Journal of Urban Health, 94

'Impact of taxes and hospitality bans on area-level variation in cigarette prices and smoking prevalence 2001-2011.'

Ballester LS*, Auchincloss AH, **Robinson LF**, Mayne SL (2017).

Int J Environ Res Public Health, 14(3).

Review of Epidemiological Studies of Drinking-Water Turbidity in Relation to Acute Gastrointestinal Illness

A.J. De Roos, P.L. Gurian, **L.F. Robinson**, A. Rai, I. Zakeri and M.C. Kondo (2017)

Environ Health Perspectives, 125(8)

'No contribution of lifestyle and environmental exposures to gender discrepancy of liver disease severity in chronic hepatitis b infection: Observations from the Haimen City cohort'

J. Sun , **L.F. Robinson**, N.L. Lee, S. Welles, A. A. Evans (2017)

PLOS ONE, 12(4)

'Work Characteristics Associated with Physical Functioning in Women'

A. J. Palumbo, A.J. De Roos , C. Cannuscio 3, **L.F. Robinson** , J. Mossey , J. Weitlauf, L. Garcia , R. Wallace and Y. Michael (2017)

Int. J. Environ. Res. Public Health 14(4),

'Thoracic spine morphology of a pseudo-biped animal model (kangaroo) and comparisons with human and quadruped animals'

S. Balasubramanian, J.R. Peters, **L.F. Robinson**, S. Singh , R.W. Kent. (2016)
European Spine Journal 25(12)

'Neighborhood variation in the price of soda relative to milk and its association with neighborhood socioeconomic status and race'

D.M. Kern, **L.F. Robinson** , L.L. Ballester, A. Auchincloss.
Public Health Nutrition. 2016;

'The temporal instability of resting state network connectivity in intractable epilepsy'

L.F. Robinson, P. Barnett, G. Doucet, X. He, , and J. Tracy (2017)
Human Brain Mapping, 38(1)

'Age-and gender-related changes in pediatric thoracic vertebral morphology'

J. Peters, C. Chandrasekaran, **L.F. Robinson**, S.E. Servaes, R.M. Campbell, S. Balasubramanian
(2015)
The Spine Journal, 15(5)

'Dynamic functional connectivity using state-based dynamic community structure: Method and application to opioid analgesia

L.F. Robinson, L.A. Atlas and T.D, Wager (2015)
NeuroImage, 108, 274-291

'Change point Estimation in Multi-subject FMRI Studies'
L.F. Robinson, T.D. Wager and M.A. Lindquist (2010)
Neuroimage 49(2):1581-92. Epub 2009 Sep 4.

'Spatial Clustering of Response Curves'
L.F. Robinson, T. D. Wager, L. Atlas, M.A. Lindquist
Proceedings of the Annual Meeting of the Organization for Human Brain Mapping, 2009

'Detecting Shifts in Correlation and Variability with Application to ENSO-Monsoon
Rainfall Relationships '
L.F. Robinson, V. H. de la Peña, Yochanan Kushnir (2008)
Theoretical and Applied Climatology, 94, 215-224

GRANT FUNDING

National Institute of Environmental Health Sciences
'Prenatal Exposure to Endocrine Disrupting Chemical Mixtures and ASD Risk'
Co-Investigator, 5% effort; PI: Newschaffer, 2017-2021

National Institute of Health
'The influence of prenatal maternal exposures on fetal sterol metabolomics'
Co-Investigator, 15% effort; PI: Snyder, 2016-2017

National Institute of Environmental Health Sciences
'Prospective Evaluation of Air Pollution, Cognition, and Autism from Birth Onward'
Co-Investigator, 5% effort; PI: Volk, 2016-2017

Scoliosis Research Society
'Structure and Growth of the Thoracolumbar Spine and Ribs in Normative Pediatric and AIS subjects - A
Comprehensive Multi-Center and multi-Modal Validation Study'
Co-Investigator, 3% effort; PI: Balasubramanian, 2015-2017

Independence Blue Cross
'Translational Effectiveness of Large Scale Simulations (TELSS)'
Co-Investigator, 5% effort; PI: Ponnuru, 2015-2016

Water Research Foundation
'Evaluation of Scientific Literature on Turbidity Associated with the Risk of Gastrointestinal (GI) Illness'
Co-Investigator, 5% effort; PI: DeRoos, 2015

National Heart, Lung, and Blood Institute
'Neighborhoods and cardiovascular risk in a multiethnic cohort'
Co-Investigator, 5% effort; PI: Auchincloss, 2014-2015

Scoliosis Research Society
'Effects of Spinal Fusion and Instrumentation on Rib Position, Costovertebral Joint Geometry and Vertebral
Morphology in Adolescent Idiopathic Scoliosis'
Co-Investigator, 4% effort; PI: Balasubramanian, 2014-2015

THESIS COMMITTEES

'The Role of Biologics in the Treatment of Ulcerative Colitis'
Andrew Klink (2014)

'Gender, Reproductive, and Lifestyle Risk Factors Associated with Liver Disease Severity in Chronic hepatitis B Infection'
Jing Sun (2015)

'The burden of infection-associated and common cancers among South Asians and other Asian subpopulations in the United States, 1999-2009'
Neena George (2014)

'The Influence of Work Patterns and Work Characteristics on Women's Later Life Physical Functioning'
Aimee Palumbo (2016)

'The price of unhealthy food and its impact on diet quality, diabetes prevalence, and insulin resistance in an elderly population, and the differing effect by socioeconomic status'
Dave Kern (2016)

'Association of Sexual Orientation with Risk of Mental Health Disorders and Cardiovascular Diseases: Results from a National Survey'
Lezhou Wu (2017)

'Stress and Coronary Heart Disease in Women: Mechanisms and Gender Differences'
Conglong Wang (2018, expected)

'Overdose among street-involved women drug users: examining the impact of violence on overdose risks and utilization of overdose prevention training'
Janna Ataintis (2019, expected)

'Illicit drug use and prescription drug misuse among young adult medical marijuana patients and non-medical marijuana users in Los Angeles'
Ekaterina Federova (2018, expected)

'Prenatal nutritional supplementation and autism spectrum disorders in two European population-based cohorts'
Elizabeth DeVilbiss (2017)

'"Time of the month": A mixed-method study to understand and improve Menstrual Health and Hygiene Management in Rural North India'
Astha Ramaiya (2018, expected)

AWARDS & FELLOWSHIPS

Columbia University, Department of Statistics
Faculty Fellowship

2004-2009

Howard Levene Award for Excellence in Teaching

2006

Awarded each year by the Columbia University Department of Statistics to one graduate student instructor

Teagle Fellowship

Teagle Collegium for Psychological Science and Student Learning

2008-2009

National Science Foundation Graduate Fellowship

Integrative Graduate Education and Research Traineeship (IGERT)

2003-2006

Institute For Mathematical Statistics

Young Researcher Travel Award

2010

INVITED PRESENTATIONS

Institute for Operations Research and Management Science (INFORMS) Annual Meeting

Washington, DC

2008

Time Series Analysis in Neuroimaging Workshop, Columbia University

New York, NY

2009

Complex Networks Modeling Workshop, Statistical and Applied Mathematical Sciences Institute (SAMSI)

Research Triangle Park, NC

2010

Drexel University School of Biomedical Engineering, Science and Health Systems

Philadelphia, PA

2012

Johns Hopkins University, Department of Applied Mathematics and Statistics

Baltimore, MD

2013

American statistical Association Worskop on statistical Methods in imaging

Baltimore, MD

2015

CONFERENCE PRESENTATIONS

Joint Statistical Meetings Denver, Colorado	2008
Organization for Human Brain Mapping Annual Meeting Melbourne, Australia	2008
Organization for Human Brain Mapping Annual Meeting San Francisco, CA	2009
Minghui Yu Memorial Research day New York, NY	2009
Joint Statistical Meetings Washington, DC	2009
Joint Statistical Meetings Vancouver, BC	2010
Joint Statistical Meetings Miami, FL	2011
International Biometrics Society ENAR Annual Meeting Orlando, FL	2013
Joint Statistical Meetings Montreal, QC	2013
Organization for Human Brain Mapping Annual Meeting Seattle, WA	2013
international Biometrics society ENAR Annual Meeting Miami, FL	2015
Organization for Human Brain Mapping Annual Meeting Honolulu, HI	2015
Joint Statistical Meetings Montreal, QC	

OTHER EXPERIENCE

Drexel University Biostatistics Service Center Consultant	2011-
	2008
National Science Foundation Institute for Pure and Applied Mathematics (IPAM) Summer Student: Mathematics In Brain Imaging	
Columbia University Statistical Consulting Service Consultant. Provided statistical support to researchers from fields including	2006-2008

public health, education, ecology, climatology, and political science.

New York Public Interest Research Group (NYPIRG)

Research Assistant. Performed analysis on New York City public transportation data for 'State of the Subways' report. 2001

Schoolhouse tutors, New York, NY

Math Tutor 2006-2008

COMMUNITY ACTIVITIES

Referee

Biometrics, Journal of Computational and Graphical Statistics, Journal of the American Statistical Association

Graduate Student Sponsored Career Conference, Columbia University 2008

Co-organized symposium with over 100 attendees

Women in Science at Columbia 2007-

Departmental Representative

New York City Science and Engineering Fair 2009

Scientific Reviewer

Girls' Science Day 2007

Experiment Leader

AFFILIATIONS:

American Statistical Association, Institute for Operations Research and Management science, Organization for Human Brain Mapping, International Biometric Society, Institute for Mathematical Statistics

CITIZENSHIP:

USA