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CHEN Shizhe

CONTACT INFORMATION Department of Statistics
Columbia University
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EDUCATION **University of Washington**, Seattle, WA, USA
M.S. in Biostatistics, June 2015
Ph.D. in Biostatistics August 2016
Department of Biostatistics
Advisor: Ali Shojaie, Ph.D. and Daniela Witten, Ph.D.
Peking University, Beijing, P.R.China
B.S. in Statistics July 2011
Yuanpei College
B.A. in Economics (Double Major) July 2011
National School of Development

RESEARCH INTEREST High-dimensional Statistics, Graphical Models, Neuroscience

RESEARCH EXPERIENCE **Department of Statistics and Grossman Center for the Statistics of Mind**, **Columbia University**, New York, NY, U.S.A.

Postdoctoral Research Scientist Sept. 2016 to present
Statistical methods in computational neuroscience.
Supervisor: Liam Paninski, Ph.D. and John P. Cunningham, Ph.D.

Department of Biostatistics, University of Washington, Seattle, WA, U.S.A.

Research Assistant Sept. 2013 to present
Graphical modeling in high dimensions.
Supervisor: Ali Shojaie, Ph.D. and Daniela Witten, Ph.D.

Research Assistant Sept. 2011 to Sept. 2012
Statistical methods in medical cost analysis.
Supervisor: Xiao-Hua Andrew Zhou, Ph.D.

Vaccine Immunology Statistics Center, **Fred Hutchinson Cancer Research Center**, Seattle, WA, U.S.A.

Research Assistant Sept. 2012 to Sept. 2013
Inter-lab calibration of biomarker data subjected to random censoring.
Supervisor: Yunda Huang, Ph.D. and Xiao-hua Andrew Zhou, Ph.D.

National School of Development, Peking University, Beijing, P.R.China

Research Assistant Oct. 2009 to Dec. 2010
Investigation of influence of three major health care systems in China.
Supervisor: Ling Li, Ph.D.

TEACHING EXPERIENCE **Department of Biostatistics, University of Washington, Seattle, WA, U.S.A.**

Teaching Assistant Jan. 2014 to March 2014
 Medical Biometry II
 Supervisor: Lurdes Inoue, Ph.D.

Teaching Assistant July 2015
 Summer Institute for Statistics of Big Data
 Supervisor: Noah Simon, Ph.D. and Daniela Witten, Ph.D.

PUBLICATIONS **Statistical Theory and Methods:**

Shizhe Chen, Ali Shojaie, Eric Shea-Brown, and Daniela M. Witten. The multivariate Hawkes process in high dimensions: beyond mutual excitation. (submitted).
Shizhe Chen, Ben Shababo, Xinyi Deng, Hillel Adesnik, and Liam Paninski. Mapping neural microcircuits: design and inference. (in progress).
 Fang Han, **Shizhe Chen**, and Han Liu. Distribution-free tests of independence in high dimensions. *Biometrika (to appear)*, 2017+.
Shizhe Chen, Daniela M. Witten, and Ali Shojaie. Nearly assumptionless screening for the mutually-exciting multivariate Hawkes process. *Electronic Journal of Statistics*, 11(1):1207–1234, 2017.
 Linbo Wang, **Shizhe Chen**, and Ali Shojaie. Discussion on “causal inference by using invariant prediction: identification and confidence intervals”. *Journal of the Royal Statistical Society - Series B (to appear)*, 2016+.
Shizhe Chen, Ali Shojaie, and Daniela M. Witten. Network reconstruction from high-dimensional ordinary differential equations. *Journal of the American Statistical Association (to appear)*, 2016+.
Shizhe Chen, Daniela M. Witten, and Ali Shojaie. Selection and estimation for mixed graphical models. *Biometrika*, 102(1):47–64, 2015.

PRESENTATIONS WNAR/IMS conference, University of Hawaii, Honolulu, HI, USA (June 2014)
 Joint Statistical Meetings, Boston, MA, USA (August 2014)
 Joint Statistical Meetings, Seattle, WA, USA (August 2015)
 ICSA Applied Statistics Symposium, Atlanta, GA (June 2016) (*invited*)
 Joint Statistical Meetings, Chicago, IL, USA (August 2016)
 Seminar, the Informatics Institute, University of Florida, Gainesville, FL, USA (August 2016) (*invited*)
Young Investigator Lecture, Eighth International Workshop Statistical Analysis of Neuronal Data, University of Pittsburgh, Pittsburgh, PA, USA (June 2017)
 WNAR/IMS conference, Santa Fe, NM, USA (June 2017) (*invited*)
 Joint Statistical Meetings, Baltimore, MD, USA (August 2017) (*invited*)

PROFESSIONAL SERVICE **Referee Service:**
 Journal of the American Statistical Association, Journal of Multivariate Analysis, IEEE/ACM Transactions on Computational Biology and Bioinformatics

University Service:
 Student-Faculty relationships committee, Department of Biostatistics, University of Washington 2013 to 2014

WORKSHOPS **Summer Workshop on the Dynamic Brain**, Friday Harbor Laboratories, Fri-

day Harbor, WA, U.S.A.

Aug. 2015

Challenges in Functional Connectivity Modeling and Analysis, SAMSI,
RTP, NC, U.S.A.

Apr. 2016

HONORS	<i>Wu-si</i> Scholarship, Peking University	2009
	POSCO Asia Fellowship, Peking University	2010
	Outstanding Graduate of Peking University	2011
	Axio Award, Department of Biostatistics, University of Washington	2011
	Student Excellence Award, Department of Biostatistics, Univ. of Washington	2011

PROGRAMMING R, Python, Matlab, Mathematica, SAS, C, STATA, Java, and L^AT_EX
LANGUAGES