

# Curriculum Vitae

**SOEUN KIM, Ph.D.**

## CONTACT INFORMATION

Address: Department of Biostatistics and Data Science  
University of Texas Health Science Center  
School of Public Health  
RAS W-940  
1200 Pressler Street  
Houston, TX 77030  
Phone: 713-500-9567  
Email: Soeun.Kim@uth.tmc.edu

## EDUCATION

### **University of California, Los Angeles**

Ph.D. Department of Biostatistics, 2011

Dissertation: Multiple Imputation for Missing Covariates in Regression Models with Interactions

Advisors: Thomas R. Belin, Ph.D., Catherine A. Sugar, Ph.D.

### **Seoul National University, Seoul, Korea**

M.S. in Statistics, February 2007

### **University of Cambridge, St. Catharine's College, Cambridge, United Kingdom**

M.A. Mathematics (Honorary degree), May 2007

B.A. Honours, Mathematics, June 2003

## PROFESSIONAL EXPERIENCE

Assistant Professor, University of Texas Health Science Center

Department of Biostatistics

September 2012- Present

Postgraduate Researcher, UCLA Department of Biostatistics

Fall 2011- Summer 2012

UCLA/Duke University National Center for Child Traumatic Stress Network

Graduate Student Researcher, UCLA Department of Biostatistics, UCLA Winter

2011 – 2012

UCLA/Duke University National Center for Child Traumatic Stress Network

Graduate Student Researcher, UCLA Semel Institute Biostatistics Core, Los Angeles, CA 2010

- Longitudinal Study of Schizophrenia across phases of Illnesses Developmental processes in schizophrenia (PI: Keith Nuechterlein, Professor, Department of Psychiatry)

Graduate Student Researcher, UCLA School of Nursing, Los Angeles, CA 2009-2010  
Biostatistician, Center for American Indian/ Indigenous Research and Education  
- Cancer Symptom Management Project

Graduate Student Researcher, UCLA Graduate School of Education and Information Studies,  
Los Angeles, CA Summer 2009 / Summer 2010 / Fall 2010

Graduate Student Researcher, UCLA Department of Biostatistics, Los Angeles, CA 2007-2008

Asan Medical Center, Seoul, Korea 2006-2007  
- Provided statistical consulting for researchers in medical school

## SCHOLARSHIPS AND AWARDS

**Second Place, Survey Research Methods Section Student Travel Award**, Joint Statistical Meetings, Miami Beach, Florida, 2011

**Seoul National University Lecture and Research Support Scholarship**, *Korea*, 2006-2007

**Cambridge Overseas Trust Scholarship**, *Cambridge, U.K.*, 2000-2003

**Ferens Trust Award**, *Cambridge, U.K.*, 1998-2003

## PUBLICATIONS

**Kim, SE**, Belin TR, Sugar CA. Multiple Imputation with non-additively related variables: Joint-modeling and approximations. *Statistical Methods in Medical Research* 2016 Sep; pii: 0962280216667763. [Epub ahead of print]

**Kim SE**, Lee W. Does McNemar's test compare the sensitivities and specificities of two diagnostic tests? *Statistical Methods in Medical Research*, 2017 Feb;26(1):142-154. doi: 10.1177/0962280214541852. Epub 2016 Sep 30.

Ware, RE; Davis, BR; Schultz, WH; et al. Hydroxycarbamide versus chronic transfusion for maintenance of transcranial doppler flow velocities in children with sickle cell anaemia-TCD With Transfusions Changing to Hydroxyurea (TWiTCH): a multicentre, open-label, phase 3, non-inferiority trial. *Lancet* (London, England). 2016. 387:661-70

Bega, D., **Kim, SE.**, Zhang, Y., Elm, J., Schneider, J., Hauser, R., Fraser, A., Simuni, T. on behalf of the NET-PD LS1 Investigators. Predictors of Functional Decline in Early Parkinson's Disease: NET-PD LS1 Cohort, *Journal of Parkinson's disease*, 2015; 5(4) :773-82. doi: 10.3233/JPD-150668.

**Kim, SE.**, Ahn, J., Lee, W. On high-dimensional two sample mean testing statistics: a comparative study with a data adaptive choice of coefficient vector, *Computational Statistics* 2015, 1613-9658, DOI: 10.1007/s00180-015-0605-7

Lorine K, Goenjian H, **Kim SE**, Steinberg A, Schmidt K, Goenjian A. Risk Factors Associated with Psychiatric Readmission, *Journal of Nervous and Mental Disease*, 2015 203(6), DOI: 10.1097/NMD.0000000000000305

**Kim SE**, Sugar CA, Belin TR. Evaluating model based imputation methods for missing covariates in regression models with interactions, *Statistics in Medicine*, 2015. 34: 1876–1888. doi: 10.1002/sim.6435.

Layne, C.M., Greeson, J.K.P., **Kim, S.**, Ostrowski, S.A., Reading, S., Vivrette, R.L., Briggs, E.C., Fairbank, J.A., & Pynoos, R.S. (2014). Links between trauma exposure and adolescent high-risk health behaviors: Findings from the NCTSN Core Data Set. *Psychological Trauma: Theory, Research, Practice, and Policy*, 6 (Suppl 1), 2014, S40-S49. <http://dx.doi.org/10.1037/a0037799>.

Greeson J, Briggs E, Layne C, Belcher H, Ostrowski S, **Kim S**, Lee R, Amaya-Jackson L, Pynoos R, Fairbank J. Traumatic Childhood Experiences in the 21st Century: Broadening & Building on the ACE Studies with Data from the NCTSN, *J Interpersonal Violence*, 2014 Feb;29(3):536-56. doi: 10.1177/0886260513505217.

Kiser LJ, Stover CS, Navalta CP, Dorado J, Vogel JM, Abdul-Adil JK, **Kim S**, Lee RC, Vivrette R, Briggs EC. Effects of the child-perpetrator relationship on mental health outcomes of child abuse: it's (not) all relative. *Child Abuse Negl.* 2014; 38(6):1083-93. doi: 10.1016/

Steinberg A, Brymer M, **Kim SE**, Briggs E, Ghosh Ippen S, Ostrowski S, Gully K, Pynoos R. Psychometric Properties of the UCLA PTSD Reaction Index: Part 1, *Journal of Traumatic Stress*, 2013 Feb;26(1):1-9. doi: 10.1002/jts.21780.

Betancourt T, Newnham E, Layne C, **Kim S**, Steinberg A, Ellis H, Birman D. Trauma History and Psychopathology in War-Affected Refugee Children Referred for Trauma-Related Mental Health Services in the United States, *Journal of Traumatic Stress*, 2012; 25: 1-9

Hodge F, Cantrell B, **Kim SE**. Health status and sociodemographic characteristics of the morbidly obese American Indians. *Ethnicity and Disease*, 2011; 21: 52-57

Heinzerling KG, Swanson AN, **Kim S**, Cederblom L, Moe A, Ling W, Shoptaw S. Randomized, double-blind, placebo-controlled trial of modafinil for the treatment of methamphetamine dependence. *Drug and Alcohol Dependence*, 2010; 109: 20-29.

## **RESEARCH FUNDING**

### **Grants Active/Completed**

Data Coordinating Center for the Prospective, Randomized Optimal Platelets and Plasma Ratios (PROPPR) (Proj ID: 0008049)  
Active / NIH / Co-Investigator

Prehospital Resuscitation on Helicopter Study (PROHS)  
Active / NIH / Co-Investigator

Training Grant Program in Biostatistics at UTHSC-SPH (Proj ID: 0009037)  
Active / NIH / Mentor

TCD With Transfusions Changing To Hydroxyurea (TWITCH) (Proj ID: 0008161)  
Completed / NIH / Co-Investigator

Parkinson's Disease Clinical Trial (Proj ID: 0009321)  
Completed / NIH / Co-Investigator

### **POSTER PRESENTATIONS**

Christine CW, **Kim SE**, Zhang Y, Dietiker C. Characterization of vitamin B12 supplementation and clinical outcomes in a large longitudinal study of early Parkinson's disease, American Neurological Association Annual meeting, Baltimore, 2016

Chang M, Nyitray AG, **Kim SE**, Lin HY, Abrahamsen M, Papenfuss M, Ingles D, Villa L, Lazcano-Ponce E, Giuliano AR. A Novel Technique to define Persistence and Factors Associated with Persistence of Genital HPV: the HIT Study. Paper presented by M. Chang at the 30<sup>th</sup> International Papillomavirus Conference and Clinical Workshop; Lisbon, Portugal 2015

### **INTERNATIONAL CONFERENCE PRESENTATIONS**

Invited talk:

Institute of Mathematical Statistics Asia Pacific Rim Meeting (IMS APRM)

Doubly robust generalized estimating equations with consistent variance estimator when one auxiliary model is misspecified, June 2016

Contributed talk:

Soeun Kim, Jue Wang, Babara Tilley

Society for Clinical Trials, Standardized Global Statistical Test for combining multiple outcomes in clinical trials, May 2016

Invited talk:

UKC Conference, Multiple imputation for missing covariates with binary covariates in presence of interactions, Atlanta, GA, July 2015

Invited talk:

UKC Conference, Evaluating model based imputation methods for missing covariates in regression with interactions, San Francisco, CA, August, 2014

Contributed talk:

Soeun Kim, Thomas R. Belin, Catherine A. Sugar

Multiple Imputation for Regression Models with Interaction, Joint Statistical Meetings 2010, Vancouver, Canada, August 3, 2010

Contributed talk:

Soeun Kim, Catherine A. Sugar, Thomas R. Belin

Multiple Imputation for Missing Covariates for Regression Models with Interactions: the Binary Case, Joint Statistical Meetings 2011, Miami Beach, Florida, July 31, 2011

## **TEACHING EXPERIENCE**

- 2017 Spring  
PH 1998 Resampling and nonparametric regression, University of Texas Health Science Center
- 2016 Fall  
PHW1690 Foundations of Biostatistics, Department of Biostatistics, University of Texas Health Science Center
- 2016 Spring  
PH1690 Foundations of Biostatistics, Department of Biostatistics, University of Texas Health Science Center
- 2015 Spring  
PH1998 Resampling and nonparametric regression
- 2014 Fall  
PH1690 Foundations of Biostatistics, Department of Biostatistics, University of Texas Health Science Center
- 2013 Fall  
PH1998 Resampling and nonparametric regression, Division of Biostatistics, University of Texas Health Science Center
- 2010 Fall - 2011 Winter  
Teaching Assistant, Department of Biostatistics and Department of Health Services, UCLA  
- Taught lab sessions for biostatistics courses (Introduction to Biostatistics, Applied Biostatistics) for health professionals in the Executive Master of Public Health program
- 2006 Teaching Assistant, Department of Statistics, Seoul National University, Seoul, Korea
- 2005 Mathematics Teacher, Myongji Foreign Language High School, Seoul, Korea
- 2003-2004 Resident Teacher [Mathematics], Felixstowe International College, Felixstowe, U.K.

## **STUDENT ADVISING**

- Jiao Rong, Academic Advisor, PhD student
- Meilin Huang, Academic Advisor, PhD student
- Emy Anu Thomas, Academic Advisor, MS student
- Shaun Bulsara, Academic Advisor, MS student
- Jixin Wang, Academic Advisor, MPH student
- Mihyun Chang, Dissertation Advisor, PhD student
- Misung Yi, Dissertation advisor, PhD student
- Yunxi Zhang, Dissertation Advisor, PhD student
- Zheyu Lin, External Reviewer, PhD Student (Graduated)
- Ming Yang, External Reviewer, PhD Student (Graduated)
- Yulun Liu, External Reviewer, PhD student (Graduated)
- Yi Cai, External Reviewer, PhD student (Graduated)
- Lin Ye, Committee member, MS student (Graduated)
- Minjung Park, External Reviewer, PhD student (Graduated)
- Geng Chen, External Reviewer, PhD Student (Graduated)

## **JOURNAL REFEREE SERVICE**

- Contemporary Clinical Trials
- Statistics in Medicine
- Journal of Biopharmaceutical Statistics
- Statistica Sinica
- Multivariate Behavioral Research
- Scientific Reports
- Movement disorders
- Biomed Central Health Services Research
- Journal of Translational Medicine
- Journal of Immigrant and Minority Health
- Journal of Affective Disorders

## **ACADEMIC SERVICE**

- Parkinson Study Group Scientific Review Committee 2015-2018
- Associate Editor for Journal of Korean Statistical Society (JKSS) 2017-2019
- University of Texas School of Public Health Faculty Awards Committee
- University of Texas School of Public Health Biostatistics Faculty Search Committee
- University of Texas School of Public Health Department of Biostatistics Scholarship Committee

## **MEMBERSHIP**

- American Statistical Association
- Institute of Mathematical Statistics
- Korean International Statistical Society