

**BIOGRAPHICAL SKETCH**

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NAME: Wang, Wei

eRA COMMONS USER NAME (credential, e.g., agency login): wwang123

POSITION TITLE: Assistant Professor, Harvard Medical School  
Associate Biostatistician, Brigham and Women's Hospital

EDUCATION/TRAINING (*Begin with baccalaureate or other initial professional education, such as nursing, include postdoctoral training and residency training if applicable. Add/delete rows as necessary.*)

INSTITUTION AND LOCATION	DEGREE (if applicable)	Completion Date MM/YYYY	FIELD OF STUDY
Beijing Normal University, Beijing, China	BS	07/1992	Computer Science
University of California, Davis, CA	MS	07/1999	Statistics
University of California, Davis, CA	PhD	07/2001	Statistics

**A. Personal Statement**

I have a strong background in many areas of biostatistics, with specific training in experimental design, clinical trials, and performing time series, longitudinal data, and survival analyses. I have provided statistical support for many investigators in the Harvard Medical School community during the past 18 years. I have also participated in teaching the Harvard Catalyst Clinical Trial Design course.

**B. Positions and Honors****Positions and Employment**

1992–1997 Programmer/Statistician, National Health Education Institute of China  
 1997–1998 Teaching Assistant, Department of Statistics, University of California, Davis, CA  
 1998–2000 Programmer/Statistician, Department of Anthropology, University of California, Davis, CA  
 2000–2001 Teaching Assistant, Department of Statistics, University of California, Davis, CA  
 2001–2002 Research Assistant, Department of Statistics, University of California, Davis, CA  
 2001–2002 Research Fellow, Dept. of Biostatistics, Harvard School of Public Health and Department of Biostatistical Science, Dana–Farber Cancer Institute, Boston, MA  
 2002–2006 Assistant Professor, Department of Biostatistics, Harvard School of Public Health and Department of Biostatistical Science, Dana–Farber Cancer Institute, Boston, MA  
 2006– Lecturer, Department of Medicine, Harvard Medical School and Associate Mathematician, Brigham and Women's Hospital, Boston, MA  
 2017– Assistant Professor, Department of Medicine, Harvard Medical School and Brigham and Women's Hospital, Boston, MA

**Honors and Awards**

1988–1992 Outstanding Undergraduate Student Scholarship, Beijing Normal University  
 1999 J.R. Blum Memorial Award for Outstanding Graduate Student, Department of Statistics, UC Davis  
 2000 Summer Research Fellowship, UC Davis

## C. Contributions to Science

1. I served as the biostatistician for multiple clinical trials, cancer studies, and epidemiological studies.
  - a. Richardson LC, Wang W, Hartzema AG, and Wagner S. The Role of Health-related Quality of Life in Early Discontinuation of Chemotherapy for Breast Cancer. *The Breast Journal* 2007; 13(6):581-587.
  - b. Sakai R, Wang W, Yamguchi N, Tamura H, Goto R, Kawachi I. The impact of Japan's 2004 postgraduate training program on intra-prefectural distribution of pediatricians in Japan. *PLoS One* 2013 Oct 30; 8(10): e77045.
  - c. Ramin C, Wang W, Prescott J, Rosner B, Simon NM, De Vivo I, Okereke OI. A prospective study of leukocyte telomere length and risk of phobic anxiety among women. *Psychiatry Research*. 2015 Dec 15; 230(2):545-552.
  - d. Ouchi K, Strout T, Haydar S, Baker O, Wang W, Bernacki R, Sudore R, Schuur JD, Schonberg MA, Block SD, Tulsy JA. Association of Emergency Clinicians' Assessment of Mortality Risk With Actual 1-Month Mortality Among Older Adults Admitted to the Hospital. *JAMA Netw Open*. 2019 Sep 4;2(9):e1911139. doi: 10.1001/jamanetworkopen.2019.11139.PMID: 31517962.
2. I have performed data analyses in sleep medicine using modern statistical models and methods.
  - a. Cohen DA, Wang W, Wyatt JK, Kronauer RE, Dijk DJ, Czeisler CA, Klerman EB. Uncovering residual effects of chronic sleep loss on human performance. *Sci Transl Med*. 2010 Jan 13;2(14):14ra3. PubMed PMID: 20371466; NIHMSID: NIHMS190030; PubMed Central PMCID: PMC2892834.
  - b. Buxton OM, Cain SW, O'Connor SP, Portor JH, Duffy JF, Wang W, Czeisler CA, Shea SA. Adverse metabolic consequences in humans of prolonged sleep restriction combined with circadian disruption. *Science Translational Medicine*, 2012 Apr 11; 4(129):129ra43. PubMed PMID:22496545; PMCID:PMC3678519.
  - c. Rajaratnam SM, Landrigan CP, Wang W, Kaprielian R, Moore RT, Czeisler CA. Teen Crashes Declined After Massachusetts Raised Penalties For Graduated Licensing Law Restricting Night Driving. *Health Aff (Millwood)*. 2015 Jun 1;34(6):963-70. PubMed PMID: 26056201.
  - d. Bianchi MT, Wang W, Klerman EB. Sleep misperception in healthy adults: implications for insomnia diagnosis. *Journal of Clinical Sleep Medicine* 2012 Oct 15; 8(5):547-554.
3. I developed statistical methods in survival analysis, longitudinal data analysis, and correlated data analysis.
  - a. Tian L, Wang W, Wei LJ. Estimating predictors for long- or short-term survivors. *Biometrics*. 2003 Dec;59(4):1008-15. PubMed PMID: 14969480.
  - b. Wang W, Wang J. Proportional Hazards Regression with Unknown Link Function. *IMS Lehmann Lecture Notes*. 2009; 0:45-64.
  - c. Klerman EB, Wang W, Duffy JF, Dijk D, Czeisler CA, Kronauer RE. Survival analysis indicates that age-related decline in sleep continuity occurs exclusively during NREM sleep. *Neurobiol Aging*. 2013 Jan;34(1):309-18. PubMed PMID: 22727943; NIHMSID: NIHMS382251; PubMed Central PMCID: PMC3469724.
  - d. Rosner B, Wang W, Eliassen H, Hibert E. Comparison of Dependent Pearson and Spearman Correlation Coefficients with and without Correction for Measurement Error. *J Biomet Biostat* 2015; 6:226

## Complete List of Published Work in MyBibliography:

<http://www.ncbi.nlm.nih.gov/myncbi/161NrxnUODEAn/bibliography/48167935/public/?sort=date&direction=ascending>

## D. Additional Information: Research Support and/or Scholastic Performance

### Ongoing Research Support

P01AG09975

Czeisler (PI)

08/01/13–07/31/20

NIA  
Sleep, Aging, and Circadian Rhythm Disorders.  
The goals of the Program Project are to understand the impact of circadian disruption separate from the impact of sleep restriction on metabolism in older adults  
Role: Biostatistician

5R01DK099512-04	Scheer (PI)	05/15/14–04/30/20
Meal time effects on metabolic health The major goals of this project are to study the meal time on metabolic health. Role: Biostatistician		
R01DK102696	Scheer /Saxena (PI)	08/19/15–05/31/20
Melatonin and Receptor Gene Variant: Linking Circadian System and Type 2 Diabetes The goal is to examine the role of melatonin and receptor gene variant in Type 2 Diabetes. Role: Biostatistician.		
NIH/NHLBI R01 HL133137	Diaz (PI)	06/20/17–04/30/22
Clinical Implications of Bronchiectasis in Smokers The goal of this project is to refine, validate and apply visual and semi-automated computed tomographic-based approaches to identify bronchiectasis in smokers for clinical and epidemiologic research. Role: Biostatistician		
1R01HL140574-01	Scheer (PI)	09/15/17–05/31/22
Role of meal timing in efficacy of bariatric surgery in obese individuals The major goals of this project are to develop evidence-based dietary interventions incorporating meal timing to optimize the efficacy of bariatric surgery. Role: Biostatistician		
5R01DC014924	Merfeld (PI)	01/01/18–06/30/20
NIH Employing vestibular thresholds to improve patient diagnosis The goal is to establish, test and translate the vestibular thresholds to the clinic to improve patient diagnosis. Role: Biostatistician		
UL1 TR 002541	Baden (PI)	05/01/08–04/30/23
NIH HCTSC CTR Core G - Network Capacity Biostatistics and Bioinformatics Program The goal is to support Harvard investigators undertaking clinical and translational research by offering consultations and expertise on a range of relevant areas to researchers as they launch new clinical and translation projects. Role: Biostatistician		
5R01CA229772-02	Sabbisetti (PI)	09/01/18–08/31/23
Spatiotemporal delivery of synergistic drug combinations to kidney cancer The major goals are to study spatiotemporal delivery of synergistic drug combinations to kidney cancer. Role: Biostatistician		
2R01AG044416-06	Duffy (PI)	03/15/19–12/31/22
Treatment of circadian disruption from shiftwork in older adults The major goals of this project are to test in older workers a sleep timing and enhanced lighting regimen that has been successful in allowing young workers to maintain optimal performance at night. Role: Biostatistician		
1R01HL144566-01	Leaf (PI)	07/01/19–06/30/23
Precision medicine approach to vitamin D3 administration in critical illness The major goals of this project are to study the effect of vitamin D3 administration in critical illness. Role: Biostatistician		

1R01HL128538

Klerman (PI)

06/01/16–01/31/21

Influence of sleep regularity on circadian rhythms, learning, performance, and mood

The goal is to test the effects of irregular and regular sleep/wake schedules on circadian timing, sleep, cognitive performance, mood, and learning.

Role: Biostatistician