

Robert T. Krafty

Department of Biostatistics
 University of Pittsburgh
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 7125 Public Health
 Pittsburgh, PA 15261

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Research Interests:

Time Series; Signal Analysis; Multilevel Data; Longitudinal Data; Spectrum Analysis; Functional Data; High-Dimensional Data Analysis; Applications in Sleep, Neuroscience, Health Economics, Behavioral Health, and Epidemiology

Education:

University of Pennsylvania, Philadelphia, PA	
PhD in Biostatistics	2007
MA in Mathematics	2002
SUNY at Stony Brook, Stony Brook, NY	
BS in Mathematics & Dance, magna cum laude, Honors College	2000

Academic Positions:

Associate Professor of Biostatistics, University of Pittsburgh	2015-Present
Director, Graduate Programs in Statistics, Temple University	2014-2015
Assistant Professor of Statistics, Temple University	2013-2016
Assistant Professor of Statistics, University of Pittsburgh	2007-2013

Published Peer-Reviewed Journal Articles:

*indicates that I was the PhD advisor for the first author and that the publication is part of his/her dissertation

- *Beer JC, Aizenstein HJ, Anderson SJ, **Krafty RT** (2019+) “Incorporating Prior Information with Fused Sparse Group Lasso: Application to Prediction of Clinical Measures from Neuroimages.” *Biometrics*. In Press.
- **Krafty RT**, Fu H, Graves JL, Bruce SA, Hall MH, Smagula SF (2019+) “Measuring Variability in Rest-Activity Rhythms from Actigraphy with Application to Characterizing Symptoms of Depression.” *Statistics in Biosciences*. In Press.
- Bowman MA, Duggan KA, Brindle RC, Kline CE, **Krafty RT**, Thayer JF, Hall MH (2019+). “Prospective Associations among Objectively and Subjectively Assessed Sleep and the Metabolic Syndrome.” *Sleep Medicine*. In Press.

- *Li, Z & **Krafty, RT** (2019) “Adaptive Bayesian Time-Frequency Analysis of Multivariate Time Series.” *Journal of the American Statistical Association*. **114**(525): 453-465.
- Antony AR, Abramovici S, **Krafty RT**, Pan J, Richardson M, Bagic A, Haneef Z (2019) “Simultaneous Scalp EEG Improves Seizure Laterization During Unilateral Intracranial EEG Evaluation in Temporal Lobe Epilepsy.” *Seizure*. **64**: 8-15.
- Smagula SF, **Krafty RT**, Thayer JF, Buysse DJ, Hall MH. (2018) “Rest-Activity Rhythm Profiles Associated with Manic-Hypomanic and Depressive Symptoms.” *Journal of Psychiatric Research*. **102**: 238-244.
- Smagula SF, DuPont CM, Miller MA, **Krafty RT**, Hasler BP, Franzen PL, Roecklein KA (2018) “Rest-Activity Rhythms Characteristics and Seasonal Changes in Seasonal Affect Disorder.” *Chronobiology International*. **35**(11): 1553-1559.
- Brindle RC, Duggan KA, Cribbet MR, Kline CE, **Krafty RT**, Thayer JF, Mulukulata SR, Hall MH. (2018) “Cardiovascular Stress Reactivity and Carotid Intima-Media Thickness: The Buffering Role of Slow-Wave Sleep.” *Psychosomatic Medicine*. **80**(3): 301-306.
- Brindle, R, Cribbet, M, Samuelsson, L, Gao, C, Frank, E, **Krafty, RT**, Thayer, J, Buysse, DJ & Hall, MH (2018) “The Relationship between Childhood Trauma and Poor Sleep Health in Adulthood.” *Psychosomatic Medicine*. **80**(2): 200-207.
- Gedela S, Sitwat, B Welch WP, **Krafty RT**, Sogawa Y. (2018) “The Effects of Vagus Nerve Stimulator in Controlling Status Epilepticus in Children.” *Seizure*. **55**(1): 66-69.
- Abramovici S, Antony A, Baldwin ME, Urban A, Ghearing G, Pan J, Hendrickson R, Plummer C, Sun T, **Krafty RT**, Richardson RM, & Bagic A (2018) “Features of Simultaneous Scalp and Intracranial EEG that Predict Localization of Ictal Onset Zone.” *Clinical EEG & Neuroscience*. **49**(3): 206-212.
- *Bruce SA, Hall MH, Buysse DJ & **Krafty RT** (2018) “Conditional Adaptive Bayesian Spectral Analysis of Nonstationary Biomedical Time Series.” *Biometrics*. **74**(1): 260-269.
- **Krafty RT**, Rosen O, Stoffer DS, Buysse DJ & Hall M (2017) “Conditional Spectral Analysis of Replicated Multiple Time Series with Application to Nocturnal Physiology.” *Journal of the American Statistical Association*. **112**(520): 1405-1416.
- *Gilbert E, **Krafty RT**, Bleicher R, & Egleston B (2017) “On Justifying the Use of Summary Comorbidity Measures for Health Services Research.” *Health Services & Outcomes Research Methodology*. **17**(4), 237-255.
- Smagula S, **Krafty RT**, Taylor B, Martire L, Schulz R and Hall MH (2017) “Rest-Activity Rhythm and Sleep Characteristics Associated with Depression Symptom Severity in Strained Dementia Caregivers.” *Journal of Sleep Research*. **26**(6), 718-725.
- Kline CE, **Krafty RT**, Mulukutla SR and Hall MH (2017) “Associations of Sedentary Time and Moderate-Vigorous Physical Activity with Sleep-Disordered Breathing and Polysomnographic Sleep in Community-Dwelling Adults.” *Sleep and Breathing*. **21**(2), 427-434.

- Market Velker BA, Denomme MM, **Krafty RT**, & Mann MRW (2017) “Maintenance of Mest Imprinted Methylation in Blasocyst-Stage Mouse Embryos is Less Stable than Other Imprinted Loci Following Superovulation or Embryo Culture.” *Environmental Epigenetics*. **3**(3): dvx015, 1-12.
- Hall MH, Mulukutla S, Kline CE, Samuelsson LB, Taylor B, **Krafty RT**, Thayer J, Frank E and Kupfer D (2017) “Objective Sleep Duration is Prospectively Associated with Endothelial Health.” *Sleep*. **40**(1): 1-9.
- He F, Mazumdar S, Tang G, Bhatia T, Anderson SJ, Dew MA, **Krafty RT**, Nimagonkar V, Deshpande S, Hall MH & Reynolds III, CF (2017) “Nonparametric MANOVA Approaches for Non-Normal Multivariate Outcomes with Missing Data.” *Communications in Statistics*. **46**(14): 7188-7200.
- Samuelson LB, Hall MH, Ranganjan AA, **Krafty RT**, Buysse DJ, Strollo PJ, Kravitz HM, Zheng H and Shimada K (2017) “Support Vector Machines for Automated Snoring Detection: Proof-of-Concept.” *Sleep and Breathing*. **21**(1): 119-133.
- Mauer LA, Bass SB, Ye D, Benitez J, Mazzella S and **Krafty RT** (2016) “Trend Analysis of Users of a Syringe Exchange Program in Philadelphia, Pennsylvania: 1999-2014.” *AIDS and Behavior*. **20**: 2922-2932.
- **Krafty RT** (2016) “Discriminant Analysis of Time Series in the Presence of Within-Group Spectral Variability” *Journal of Time Series Analysis*. **37**: 435-450.
- Hall MH, Casement MD, Troxel WM, Matthews KA, Bromberger J, Kravitz HM, **Krafty RT**, & Buysse DJ (2015) “Chronic Stress is Prospectively Associated with Sleep in Midlife Women: The SWAN Sleep Study.” *Sleep*. **38**: 1645-1654.
- Taylor BJ, Irish LA, Martire LM, Siegle GJ, **Krafty RT**, Schulz R & Hall MH (2015) “Avoidant Coping and Poor Sleep Efficiency in Dementia Caregivers.” *Psychosomatic Medicine*. **77**: 1050-1057.
- *Rothenberger SD, **Krafty RT**, Milligan B, Buysse DJ, Thayer JF, Kravitz HM, Buysse ED & Hall MH (2015) “Time-Varying Correlations between Slow Wave Sleep and Heart Rate Variability in Midlife Women: The SWAN Sleep Study.” *Psychophysiology*. **52**: 572-584.
- **Krafty RT**, Zhao M, Buysse DJ, Thayer J, & Hall MH (2014) “Spectral Analysis of Heart Rate Variability through Penalized Sum-of-Squares.” *Statistics in Medicine*. **33**: 1383-1394.
- Irish LA, Kline CE, Rothenberger SD, **Krafty RT**, Buysse DJ, Kravitz HM, Bromberger JT, Zheng H, & Hall MH (2014) “A 24-hour Approach to the Study of Health Behaviors: Temporal Relationships between Waking Health Behaviors and Sleep.” *Annals of Behavioral Medicine*. **14**: 187-197.
- **Krafty RT** & Collinge WO (2013) “Penalized Multivariate Whittle Likelihood for Power Spectrum Estimation.” *Biometrika*. **100**: 447-458.
- **Krafty RT** & Hall MH (2013) “Canonical Correlation Analysis Between Time Series and Static Outcomes, with Application to the Spectral Analysis of Heart Rate Variability” *Annals of Applied Statistics*. **7**: 570-587.

- Sanchez AI, **Krafty RT**, Puyana JC, & Gutierrez MI (2013) "Football Events and their Association with Interpersonal Violent Deaths in Cali, Colombia." *Panamerican Journal of Trauma, Critical Care and Emergency Surgery*. **2**: 26-32.
- Kline CE, Irish LA, **Krafty RT**, Sternfeld B, Kravitz HM, Buysse DJ, Bromberger JT, Dugan SA & Hall MH (2013) "Consistently High Sports/Exercise Activity is Associated with Better Sleep Quality, Continuity, and Depth in Midlife Women: The SWAN Sleep Study." *Sleep*. **36**: 1279-1288.
- Hall MH, Middleton K, Thayer JF, Lewis TT, Kline CE, Matthews KA, Kravitz HM, **Krafty RT**, & Buysse DJ (2013) "Racial Differences in Heart Rate Variability During Sleep: The SWAN Sleep Study". *Psychosomatic Medicine*. **75**: 783-790.
- **Krafty RT**, Xiong S, Stoffer DS, Buysse DJ, & Hall MH (2012) "Enveloping Spectral Surfaces: Covariate Dependent Spectral Analysis of Categorical Time Series." *Journal of Time Series Analysis*. **33**: 797-806.
- Park T, **Krafty RT**, & Sanchez AI (2012) "Bayesian Semi-Parametric Analysis of Change-Point Regression Models: Application to Policy Making in Cali, Colombia." *Journal of Applied Statistics*. **39**: 2285-2298.
- Hasler BP, Germaine A, Nofzinger EA, Kupfer DJ, **Krafty RT**, Rothenberger SD, James JA, Bi W, & Buysse DJ (2012) "Chronotype and Diurnal Patterns of Positive Affect and Affective Neural Circuitry in Primary Insomnia." *Journal of Sleep Research*. **21**: 515-526.
- Israel B, Buysse DJ, **Krafty RT**, Beagley A, Miewald J, & Hall MH (2012) "Short-term Stability of Sleep and Heart Rate Variability in Good Sleepers and Patients with Insomnia: For Some Measures, One Night Is Enough." *Sleep*. **35**: 1285-1291.
- Sanchez AI, **Krafty RT**, Weiss HB, Rubian AM, Peitzman AB & Puyana JC (2012) "Trends in Survival and Early Functional Outcomes from Hospitalized Severe Adult Traumatic Brain Injuries, Pennsylvania, US, 1998-2007." *Journal of Head Trauma Rehabilitation*. **27**: 159-169.
- **Krafty RT**, Hall MH, & Guo W (2011) "Functional Mixed Effects Spectral Analysis." *Biometrika*. **98**: 583-598.
- Siewiorek GM, **Krafty RT**, Wholey MH, & Finol EA (2011) "The Association of Clinical Variables and Filter Design with Carotid Artery Stenting Thirty-Day Outcome." *The European Journal of Vascular and Endovascular Surgery*. **42**: 282-291.
- Sanchez AI, Villaveces A, **Krafty RT**, Park T, Weiss HB, Fabio A, Puyana JC, & Gutierrez-Martinez MI (2011). "Policies for Alcohol Restrictions and Their Effects on Interpersonal Violence Deaths: A Time-Series Analysis of Homicides in Cali, Colombia." *International Journal of Epidemiology*. **40**: 1037-1046.
- Okun ML, **Krafty RT**, Monk T, Reynolds III CF, Buysse DJ, Begley A, & Hall MH (2010) "What Constitutes too Long of a Delay? Determining the Cortisol Awakening Response (CAR) Using Self-Report and PSG-Assessed Wake Time." *Psychoneuroendocrinology*. **35**: 460-468.

- Wiebe DJ, **Krafty RT**, Kopper CS, Nance ML, Elliott MR, & Branas CC (2009) “Homicide and Geographic Access to Gun Dealers in the United States.” *BMC Public Health*. **9**: 199.
- **Krafty RT**, Gimotty PA, Cookous G, Holtz DO, & Guo W (2008) “Varying-Coefficient Model with Unknown Within-Subject Covariance for the Analysis of Tumor Growth Curves.” *Biometrics*. **64**, 1023-1031.
- Holtz DO, **Krafty RT**, Zhang L, Alagkiozidis I, Courrèges MC, Chu CS, Leiby B, Benencia F, Guo W, Gimotty PA, & Coukos G. (2008) “Should Tumor VEGF Expression Influence Decisions on Combining Low-Dose Chemotherapy with Antiangiogenic Therapy?” *Journal of Translational Medicine*. **6**: 2.
- Orsini JA, Parsons CS, **Krafty RT**, Capewell L, & Boston R (2007) “Risk Factors for Acute Laminitis in Horses during Hospitalization: 73 cases (1997-2004).” *Journal of the American Veterinary Association*. **6**, 885-889.

Funding:

Current:

5R01GM113243 (Krafty) NIGMS A Statistical Framework for the Spectral Analysis of High-Dimensional Physiological Time Series Signals	8/10/2014 - 5/31/2021 \$245,898	3.60 calendar month
5R01AG047139 (Buysse/Hall) NIA Sleep, Circadian Rhythms, and Cardiometabolic Risk in Retired Shift Workers	7/1/2015 - 3/31/2020 \$392,745	0.60 calendar month
5UL1TR001857 (Reis) NCATS University of Pittsburgh Clinical and Translational Sciences Institute: Research Methods (BERD) Component	7/1/2016 - 6/31/2021 \$11,433,099	2.40 calendar month
5UG3OD023244 (Hipwell/Keenan) NIH Preconception Stress Exposure: Impact on Pregnancy and Offspring Neurodevelopment	7/1/2016 - 8/31/2023 1,148,480	1.20 calendar month
1R61MH115927 (Young) NIMH Amygdala rtfMRI Neurofeedback for Treatment Resistant Depression	1/1/2019 - 12/31/2024 \$433,905	0.48 calendar month
1R01MH115922 (Scott) NIMH Multimodal Assessment of Near-Term Risk Factors for Suicide	1/1/2019 - 12/31/2024 \$79,423 sub only	0.60 calendar month
W81XWH-18-1-0736 (Wagner) Department of Defense	9/15/2018 – 9/14/2020 \$403,536	0.36 calendar month

Epidemiological Characterization and Prognostic Models for PTE: A Collaborative TBI-MS and VHA Study

	Completed:	
DMS-0805050 (PI, Stoffer; Co-PI Krafty) NSF Statistical Methods for Dependent Data	7/1/08 – 6/30/13 \$319,999	2.00 calendar month
R01HL1104607 (Hall, Martica) NIH Sleep: a Novel Pathway Linking Major Depression and Cardiovascular Disease	8/1/10-7/30/15 \$457,551	1.20 calendar month
AG020677 (Monk, Timothy) NIH Aging Well, Sleeping Efficiently	5/1/10-6/30/15 \$1,249,768	1.20 calendar month
AG019362 (Hall, Martica) NIH SWAN Sleep Study	5/1/10-4/30/11 \$489,182	1.00 calendar month
R01MH096334 (Siegle, Gregory) NIH Blunted and Discordant Affect: A Transdiagnostic Construct in Psychopathology	9/1/12 – 5/31/18 \$503,312	0.60 calendar month
R01AI127472 (Harris, Lee) NIH Whole Genome Sequencing Enhanced Detection System for Healthcare-Associated Transmission	9/26/16 – 8/31/18 \$350,000	0.90 calendar month

Invited and Plenary Presentations:

CMStatistics, London, UK	12/17/2019
JSM, Denver, CO	7/31/2019
Emory University, Department of Biostatistics and Bioinformatics	4/4/2019
CMStatistics, Pisa, Italy	12/17/2018
George Mason University, Department of Statistics	11/9/2018
University of Illinois, Chicago, Division of Epidemiology and Biostatistics	11/2/2018
Virginia Commonwealth University, Department of Biostatistics	9/21/2018
ICSA Applied Statistics Symposium, New Brunswick, NJ	6/14/2018
Institute for Mathematics and its Applications, Minneapolis, MN	2/21/2018
CMStatistics, London, UK	12/17/2017
University of Minnesota, Department of Biostatistics	10/18/2017
Indiana University School of Medicine, Department of Biostatistics	8/25/2017
ISI World Statistics Congress, Marrakech, Morocco	7/20/2017
International Conference on Computational Statistics, Oviedo, Spain	8/23/2016
JSM, Chicago, IL	7/30/2016
ICSA Applied Statistics Symposium, Atlanta, GA	6/14/2016
IASC: Statistical Computing for Data Science, Buzios, Brazil	8/2/2015
ISI World Statistics Congress, Rio De Janeiro, Brazil	7/27/2015

University of Texas, El Paso, Department of Mathematical Sciences	4/17/2015
University of Pittsburgh, Department of Biostatistics	1/22/2015
University of Pennsylvania, Division of Biostatistics	12/9/2014
Thomas Jefferson University, Division of Biostatistics	11/6/2014
NBER/NSF Annual Time Series Conference, St. Louis, MO	9/27/2014
University of Missouri, Department of Statistics	9/25/2014
ENAR Spring Meeting, Baltimore, MD	3/17/2014
ICSA Winter Meeting, Hong Kong	12/20/2013
Temple University, Department of Statistics	11/1/2013
Columbia University, Division of Biostatistics (Psychiatry)	10/15/2013
JSM, Montreal, Quebec	8/6/2013
Fox Chase Cancer Center	2/25/2013
Temple University, Department of Statistics	2/24/2013
ENAR Spring Meeting, Orlando, FL	3/10/2013
NBER/NSF Annual Time Series Conference, College Station, TX	10/26/2012
Temple University, Department of Statistics	10/19/2012
University of Pennsylvania, Division of Biostatistics	11/8/2011
Clarkson University, Department of Mathematics	10/13/2011
JSM, Vancouver, BC	8/2/2010
WNAR Annual Meeting, Seattle, WA	6/19/2010
Conference on Nonparametric Statistics and Learning, Columbus, OH	5/21/2010
ENAR Spring Meeting, New Orleans, LA	3/22/2010
Brown University, Center for Statistical Science	9/12/2009
University of Pittsburgh, Department of Biostatistics	9/10/2009
Meeting of the Classification Society	6/12/2009
Penn State University, Department of Statistics	2/8/2009
ENAR Spring Meeting, Washington, DC	3/23/2008
University of Wisconsin, Departments of Biostatistics and Statistics	2/28/2007
University of Pittsburgh, Department of Statistics	2/19/2007
George Washington University, Department of Statistics	2/13/2007
University of Florida, Department of Biostatistics	2/6/2007
Harvard School of Medicine	2/2/2007
The Ohio State University, Department of Biostatistics	2/1/2007
Virginia Commonwealth University, Departments of Biostatistics	11/3/2006
JSM, Seattle, WA.	8/9/2006
ENAR Spring Meeting, Tampa, FL.	3/27/2006
University of Pennsylvania, Division of Biostatistics	2/14/2006

Honors and Awards:

D. Raghavarao Publication Award	2014
Award for High Achievement in Sponsored Projects, Fox School	2014
Saul Winegrad Award	2008
ENAR Travel Award	2006
University of Pennsylvania's Award for Outstanding Teaching	2002
Barry Goldwater Scholarship	1999
Phi Beta Kappa	1998

Student Supervision:

PhD Dissertation Advisor:

Current:

Terry Ding - Biostatistics, University of Pittsburgh	2016-Present
Jun Zhang – Biostatistics, University of Pittsburgh	2017-Present
Marie Tuft – Biostatistics, University of Pittsburgh	2017-Present
Ian Campbell – Biostatistics, University of Pittsburgh	2019-Present

Past (Current affiliation):

Scott Rothenberger - Statistics, University of Pittsburgh (Assistant Professor of Medicine, University of Pittsburgh)	2014
Elizabeth Gilbert - Statistics, Temple University (Assistant Professor of Mathematics, Worcester State University)	2016
Scott Bruce - Statistics, Temple University (Assistant Professor of Statistics, George Mason University)	2018
Zeda Li - Statistics, Temple University (Assistant Professor of Statistics, Baruch College, CUNY)	2018
Joanne Beer – Biostatistics, University of Pittsburgh (Post-Doc, Biostatistics, University of Pennsylvania)	2018

MS Thesis Advisor:

Chandler Capps - Biostatistics, University of Pittsburgh	2018-Present
Jianhui Zhu – Biostatistics, University of Pittsburgh	2017-Present

Past (Current Affiliation):

Clair Smith - Biostatistics, University of Pittsburgh (Biostatistician, Department of Orthopedic Surgery, University of Pittsburgh)	2017
Wendy He - Biostatistics, University of Pittsburgh (Biostatistician, School of Pharmacy, University of Pittsburgh)	2017
Sunny Zhao - Biostatistics, University of Pittsburgh (Value Engineering Data Analyst, The Rainmaker Group)	2017
Jessica Graves - Biostatistics, University of Pittsburgh (PhD Student, Epidemiology, University of Pittsburgh)	2018

PhD Committee Member:**Current:**

Laura Samuelsson - Psychology, University of Pittsburgh	2016-Present
Xuetong Zhang – Bioengineering, University of Pittsburgh	2018-Present
Franya Hutchins – Epidemiology, University of Pittsburgh	2018-Present
Shirin Nezampour – Mathematical Sciences, Shiraz University	2018-Present

Past:

Seo Hyon Baik - Statistics, University of Pittsburgh	2010
Dongli Zhou - Statistics, University of Pittsburgh	2010
Mengyuan Zhao - Statistics, University of Pittsburgh	2010
Gail Sieworek – Bioengineering, Carnegie Mellon University	2010
Nan Zhou - Statistics, University of Pittsburgh	2011
Jonathan Livengood – History & Philosophy of Science, University of Pittsburgh	2011
Zhigang Yao - Statistics, University of Pittsburgh	2011
Hyewook Jeong - Statistics, University of Pittsburgh	2012
Qi Zhang - Statistics, University of Pittsburgh	2013
Fanying He - Biostatistics, University of Pittsburgh	2013
Ken-Hsien Chuang – Mathematics, University of Pittsburgh	2014

Yanyan Li – Statistics, Temple University	2014
Alvaro Sanchez - Clinical & Translational Science, University of Pittsburgh	2015
Jing Xiao – Statistics, Temple University	2015
Ke Huang – Statistics, Temple University	2015
Andrew Gehman – Statistics, Temple University	2015
Andrew Potter – Biostatistics, University of Pittsburgh	2016
Laura Samuelsson – Psychology, University of Pittsburgh	2016
Masaki Lin - Biostatistics, University of Pittsburgh	2017
Brianna Taylor – Psychology, University of Pittsburgh	2017
Charles Ma – Biostatistics, University of Pittsburgh	2018
Brian Rooks – Statistics, University of Pittsburgh	2018
Yingyuan Li – Biostatistics, University of Pittsburgh	2019
Li Zhu – Biostatistics, University of Pittsburgh	2019

Masters Committee Member:

Current:

Jocelyn Mineo - Biostatistics, University of Pittsburgh	2018-Present
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Past:

Matthew Loiacono – Biostatistics, University of Pittsburgh	2018
Joya Peterson – Genetic Counseling, University of Pittsburgh	2018
Shen Liu – Biostatistics, University of Pittsburgh	2018
Kexin Guo – Biostatistics, University of Pittsburgh	2018
Tian He – Biostatistics, University of Pittsburgh	2018

Academic Advisor:

Current:

Kendra Bobby - Biostatistics, University of Pittsburgh	2016-Present
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Past:

Liwen Wu – Biostatistics, University of Pittsburgh	2017-2018
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Graduate Internship Supervisor:

Zhigang Yao (Pitt Statistics)	2008
Linghui Lu (Temple Statistics)	2014
Yujuan Cai (Temple Statistics)	2014–2015
Du Ye (Temple Statistics)	2014–2015
Jianyun Zhu (Temple Statistics)	2014–2015

Undergraduate Honors Thesis Committee Member:

Past:

Julia Gong – Psychology, University of Pittsburgh	2017-2018
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High School Mentoring:

Current:

Scott Sobel – Junior, Taylor Allderdice High School	2018-
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Professional Service:

University of Pittsburgh:

Internal Collaboration Committee	2018-Present
MS Admissions Committee	2018
Biostatistics PhD Award Committee	2018-Present
Co-Chair: MPH Biostatistics Committee	2017-2018
Section Chair: Epidemiology Preliminary Committee	2017-Present
Chair Search Committee	2016-2017
Chair: Biostatistics Curriculum Committee	2015–Present
Biostatistics Facilities Committee	2015–2017
Health Care Policy Qualifying Exam	2012
Statistics Hiring Committee	2011
Mathematics Time Series Qualifying Exam	2009
Statistics Graduate Admission Committee	2009–2012
Statistics Qualifying Exam Committee	2008–2012
Statistics Seminar Coordinator	2008–2010

Temple University:

Member, Fox Research Advisory Board	2013–2015
Chair, Graduate Affairs Committee, Department of Statistics	2013–2015
Coordinator, Statistics GenEd, STAT0827	2013–2015
Member, Fox School Vision & Mission Committee	2013–2014

Statistics and Scientific Communities:

Ad Hoc Member – NIH Study Section, BMRD	2018 (2 times)
Member – NIH Special Emphasis Panel, Methods & Measurements	2018 (2 times)
Lead & Organizing Judge, Intel International Science & Engineering Fair (ISEF)	2018
Editorial Board – <i>Sleep</i>	2017 – Present
Organizer – ASA Conference on Statistical Methods in Imaging	2017
Member – NIH Special Emphasis Panel, BBBP	2017
Special Awards Judge - Intel International Science & Engineering Fair (ISEF)	2017
Associate Editor – <i>Statistics and Its Interface</i> (SII)	2016 - Present
Member – SLDM section of the ASA Award Panel	2015
Member – Joint NSF/NIGMS Panel in Mathematical Biology	2014
Organizer - ENAR session on High Dimensional Biomedical Time Series	2014
President-Elect - American Statistical Association, Pittsburgh Chapter	2012-2013
Regional Advisory Board Member – ENAR	2010-2012
Organizer – ENAR session on Spectral Analysis in Biomedical Studies	2010
External Advisory Board Member – NCI Training Program, UPenn	2008-2013
Data Safety Monitoring Board (DSMB) Member:	
PPower (PI: Sperr)	2018-
Stochastic Vibro-Tactile Stimulation (PI: Salsbury)	2017-
PAMPer (PI: Sperry)	2017-2018
Multilevel Models of Therapeutic Response in the Lungs (PI: Corcoran)	2016-
4-drug Nerve Block vs. Pain Local Anesthetic (PI: Williams)	2016-

Referee for: *Annals of Applied Statistics*, *Annals of Statistics*, *Biometrika*, *Communications in Statistics*, *Journal of the American Statistical Association*, *Biometrics*, *IEEE Transactions on Biomedical Engineering*, *Journal of Classification*, *Journal of Clinical Oncology*, *Journal of the Royal Statistical Society Series B*, *Journal of Time Series Analysis*, *Journal of Computational and Graphical Statistics*, *Science*, *Statistics in Medicine*

Teaching Experience:

Graduate Courses at the University of Pittsburgh:

Bayesian Data Science – BIOS 2063 (1 time)

Introduction to Statistical Methods II – BIOS 2042 (2 times)

Introduction to Statistical Theory I – BIOS 2043 (1 time)

Applied Statistical Methods I - STAT 2131 (4 times)

Applied Statistical Methods II - STAT 2132 (6 times)

Applied Advanced Time Series - STAT 2321 (2 times)

Advances in Applied Statistics: Functional Data Analysis - STAT 2391/2 (2 times)

Independent Study – STAT 2991 (8 times)

Graduate Courses at Temple University:

Independent Study – STAT 5182 (2 times)

Directed Study – STAT 9183 (3 times)

Undergraduate Courses at the University of Pittsburgh:

Basic Applied Statistics - STAT 200 (5 times)

Undergraduate Courses at Temple University:

Statistical Reasoning and Games of Chance - STAT 0827 (4 times)