# Abdus S. Wahed, PhD

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Omitted

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**Employment**

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|---|---|
| January 2023 – Present | Professor of Biostatistics and Computational Biology, University of Rochester |
| January 2023 – Present | Associate Chair Biostatistics and Computational Biology, University of Rochester |
| March 2015 – December 2022 | Professor of Biostatistics (Tenured), Graduate School of Public Health (GSPH) |
| September 2013 – December 2022 | Director of PhD Graduate Program, Department of Biostatistics, GSPH |
| September 2021 – December 2022 | Professor of Epidemiology, Graduate School of Public Health (GSPH) University of Pittsburgh |
| September 2020 – December 2022 | Professor of Statistics, Dietrich School of Arts and Sciences, University of Pittsburgh |
| September 2003 – December 2022 | Senior Statistician Co-Investigator, Department of Epidemiology, GSPH |
| September 2009 – February 2015 | Associate Professor (Tenured), Department of Biostatistics, GSPH |
| September 2003 – August 2009 | Assistant Professor, Department of Biostatistics, GSPH |
| August 2001 - August 2003 | Graduate Research and Teaching Assistant, Department of Statistics, North Carolina State University (NCSU), Raleigh, NC |
| July 2002 - August 2002 | Graduate Student Instructor, Department of Statistics, NCSU |
| August 2000 - July 2001 | Graduate Teaching Assistant, Department of Statistics, NCSU |
| August 1998 - July 2000 | Graduate Teaching Assistant, Dept. of Mathematical Sciences, Ball State University, Muncie, IN |
| April 1998 - August 1998 | Senior Poll Analyst (part-time) DEMOCRACYWATCH, Dhaka, Bangladesh |
| December 1997 - August 1998 | Assistant House Tutor Shahidullah Hall, Dhaka University, Dhaka, Bangladesh |
| October 1995 - August 1998 | Lecturer Department of Statistics, Dhaka University, Dhaka, Bangladesh |
| January 1995 - October 1995 | Computer Programmer, Beximco Invest. Co. Ltd., Dhaka, Bangladesh |

**Education**

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|---|---|
| December 2003 | Ph.D., Statistics, North Carolina State University, Raleigh, NC<br>Advisor: *Anastasios A. Tsiatis*<br>Title of Dissertation: *Semiparametric Efficient Estimation of Treatment Policies in Two-Stage Randomization Designs in Clinical Trials* |
| July 2000 | M.A., Mathematical Statistics, Ball State University, Muncie, IN |
| September 1994 | M.Sc., Statistics, University of Dhaka, Bangladesh |
| May 1992 | B.Sc., Statistics (Minor: Economics and Mathematics), University of Dhaka, Bangladesh |

**Honors and Awards**

2019 Selected to represent International Biometric Society Eastern North American Region (ENAR) on the COPSS Award Committee
2016 Provost's Excellence in Mentoring Award, University of Pittsburgh
2015 **Fellow, American Statistical Association**

**Honors and Awards (cont. from previous page)**

2014 Statistician of the Year Award, American Statistical Association (ASA) Pittsburgh Chapter
2011 GSPH Nominee for the ASPH/Pfizer Early Career in Public Health Teaching Award
2010 James L. Craig Award for Teaching Excellence, GSPH
2010 Bayesisn Pharmacokinetics and Pharmacodynamics Modeling Workshop Travel Award
Statistical and Applied Mathematical Sciences Institute (SAMSI), RTP, NC
2007 Dynamic Treatment Regimes Workshop Travel Award, SAMSI
2005 Digestive Disease Week Poster of Distinction Award
American Gastroenterological Association
2003 Best Student Paper Award, Biopharmaceutical Section, ASA
2003 Best Student Paper Award, Biometrics Section, ASA
2003 Outstanding Graduate Teaching Assistant Award, Dept. of Statistics, NCSU
2003 ENAR Student Travel Award, International Biometric Society
2002 Gertrude M. Cox Outstanding Academic Achievement Award, Dept. of Statistics, NCSU
2002 Phi Kappa Phi Honor Society, NCSU
2001 Outstanding Graduate Teaching Assistant Award, Dept. of Statistics, NCSU
2001 Mu Sigma Rho Statistics Honor Society, NCSU
2000 Dean's Excellence Award for a perfect GPA (4.0), Graduate School, Ball State University
1994 One of the two distinguished speakers in the Annual Student Paper Competition
Department of Statistics, University of Dhaka
1992 Dr. Qazi Motahar Husain Outstanding Student Award, Department of Statistics, University of Dhaka
1991 Dr. Qazi Motahar Husain Outstanding Student Award, Department of Statistics, University of Dhaka
1990 Dr. Qazi Motahar Husain Outstanding Student Award, Department of Statistics, University of Dhaka

**Publications**

Methodological Work [asterisk(*) indicates student advisee]

1. Liu, Y., Wu, L., Tang, G. and **Wahed, AS** (2023). A series of two-sample non-parametric tests for quantile residual life time. Lifetime Data Analysis, 29(1), 234-252.
2. *Johnson, GS, *Topp, AS, and **Wahed, AS** (2022). Optimizing Acute Myelogenous Leukemia Treatment Regimes via Sequential Structural Mean Models. Bulletin of the Malaysian Mathematical Sciences Society. 45 (Suppl 1), 539-566.
3. Tomal, JH, Khan, JR, and **Wahed, AS**(2022). Weighted Bayesian Poisson Regression for The Number of Children Ever Born per Woman in Bangladesh. J Stat Theory Appl. https://doi.org/10.1007/s44199-022-00044-2
4. *Zhang, S, Qu, Y, Cheng, Y, Lopez, OL, and **Wahed, AS.**(2022). Prognostic Accuracy for Predicting Ordinal Competing Risk Outcomes Using ROC Surfaces. Lifetime Data Anal 28, 122.
5. *Wu, Liwen, *Wang, Junyao, and **Wahed, AS** (2021). Interim Monitoring in Sequential Multiple Assignment Randomized Trials. Biometrics 1 13. https://doi.org/10.1111/biom.13562
6. *Wang, Junyao, *Wu, Liwen, and **Wahed, AS** (2021). Response-Adaptive Randomization in Two-Stage Sequential Multiple Assignment Randomized Trials. Biostatistics, https://doi.org/10.1093/biostatistics/kxab020

7. *Conzuelo-Rodriguez, G., Bodnar, L.M., Brooks, M.M., **Wahed, A.**, Kennedy, E.H., Schisterman, E. and Naimi, A.I. (2022). Performance evaluation of parametric and nonparametric methods when assessing effect measure modification. American Journal of Epidemiology 191 (1), 198-207.
8. *Johnson, Geoffrey, *Topp, Andrew, and **Wahed, AS**. Optimizing Dynamic Treatment Regimes via Threshold Utility Analysis on Quality Adjusted Survival. Journal of Statistical Research Vol. 55, No. 1, pp. 127-145.
9. *Chen, L, *Yavuz, I, Cheng, Y, and **Wahed, AS** (2020). Cumulative Incidence Regression for Dynamic Treatment Regimens. Biostatistics, 2020 Apr 1; 21(2):e113-e130. doi: 10.1093/biostatistics/kxy062.
10. *Gao, X, Dong, X, Kang, C, and **Wahed, AS** (2019). Inference on mean quality-adjusted lifetime using joint models for continuous quality of life process and time to event. Journal of Statistical Research Vol. 53, No. 2, pp. 165-189.
11. *Topp, AS, *Johnson, GS, and **Wahed, AS**(2018). Variants of double robust estimators for two-stage dynamic treatment regimes. Journal of Statistical Research. Vol. 52, No. 1, pp. 91-113.
12. *Jiang, Z, Liu, Y, **Wahed, AS**, and Molenberghs, G (2018). Joint modeling of multiple ordinal adherence outcomes via generalized estimating equations with flexible correlation structure. Statistics in medicine 37 (6), 983-995.
13. *Adeniji, AK, Hsu, JY, **Wahed, AS** (2018). Estimation of discrete survival function for error-prone diagnostic tests. Pharmaceutical statistics 17 (1), 74-89.
14. *Yavuz, I, Cheng, Y, and **Wahed, AS** (2018). Estimating the Cumulative Incidence Function of Dynamic Treatment Regimes. Journal of Royal Statistical Society, Series A. 181 (1), 85-106.
15. *Buhule, OD, **Wahed, AS**, and Youk, AO (2017). Bayesian hierarchical joint modeling of repeatedly measured continuous and ordinal markers of disease severity: Application to Ugandan diabetes data. Statistics in medicine 36 (29), 4677-4691.
16. *Hsu JY, **Wahed AS** (2017). Weighted generalized estimating equations for response-adaptive treatment regimes in two-stage longitudinal studies. Journal of Statistical Research 51(1): 79-100
17. Xu, Y, Mueller, P, **Wahed, AS**, and Thall, PF. (2016). Bayesian Nonparametric Estimation for Dynamic Treatment Regimes with Sequential Transition Times; J. of the Am. Stat. Assoc. 111 (515), 921-950.
18. *Sampene, E. and **Wahed, AS** (2016). A Relatively Simple Efficient Estimator for Relative Risk in Case-Cohort Studies. Journal of Statistical Research 2016, Vol. 48-50, No. 2, pp. 37-54
19. *Marron, MM, and **Wahed, AS** (2016). Teaching Missing Data Methodology to Undergraduates Using a Group-Based Project Within a Six-Week Summer Program. Journal of Statistics Education 24 (1), 8-15.
20. Jaman, A, Latif, AHMM, Bari, W, and **Wahed, AS** (2016). A determinant-based criterion for working correlation structure selection in generalized estimating equations. Statistics in Medicine, Volume 35, Issue 11, 20 May 2016, 1819-1833.
21. *Ogbagaber, SB, Karp, J, and **Wahed, AS** (2016). Design of sequentially randomized trials for testing adaptive treatment strategies. Statistics in Medicine. Volume 35, Issue 6, pp 840-858.
22. *Dong, X, Kong, L, and **Wahed, AS** (2015). Accelerated failure time model for case-cohort design with longitudinal covariates subject to measurement error and detection limits. Statistics in Medicine, Volume 35, Issue 8 pp 1327-1339.
23. *Tang, X, and **Wahed, AS** (2015). Pattern-mixture-type Estimation and Testing of Neuroblastoma Treatment Regimes. Journal of Statistical Theory and Practice Vol 9, Issue 2, pp 266-287.
24. Huang, X, Ning, J, **Wahed, AS** (2014). Optimization of individualized dynamic treatment regimes for recurrent diseases. Statistics in medicine 33.14 (2014): 2363-2378.
25. *Kidwell, K, Ko, JH, and **Wahed, AS** (2014). Inference for the median residual life function in sequential multiple assignment randomized trials. Statistics in medicine 33.9 (2014): 1503-1513.
26. *Adeniji, A, Belle, SH, and **Wahed, AS** (2014). Incorporating diagnostic accuracy into the estimation of discrete survival function. Journal of Applied Statistics 41.1 (2014): 60-72. Volume 41,

Issue 1, 2014, PP 60-72

27. *Tang, X, and **Wahed, AS** (2014). Cumulative Hazard Ratio Estimation for Treatment Regimes in Sequentially Randomized Clinical Trials. Statistics in Biosciences, 10.1007/s12561-013-9089-6
28. *Kidwell, KM and **Wahed, AS** (2013). Weighted Log-rank Statistic to Compare Shared-Path Adaptive Treatment Strategies. Biostatistics 2013 Apr;14(2):299-312.
29. **Wahed, AS**, Thall, PF(2013 ). Evaluating Joint Effects of Induction-Salvage Treatment Regimes on Overall Survival in Acute Leukemia. Journal of Royal Statistical Society, Series C. Appl. Statist. (2013) 62, Part 1, pp. 67-83
30. *Miyahara, S, and **Wahed, AS** (2012). Assessing the Effect of Treatment Regimes on Longitudinal Outcome Data: Application to REVAMP Study of Depression. Journal of Statistical Research. Vol. 46 (2), 233-254
31. *Ko, JH, and **Wahed, AS** (2012). Up-front vs. Sequential Randomizations for Inference on Adaptive Treatment Strategies. Statistics in Medicine, Volume 31, Issue 9, pages 812-830
32. *Tang, X, and **Wahed, AS** (2011). Comparison of Treatment Regimes with Adjustment for Auxiliary Variables. Journal of Applied Statistics, 2011; 38: 2925-2938.
33. **Wahed, AS** (2011). On the Equivalence of Inverse-Probability-of-Censoring-Weighted and Kaplan-Meier Estimators. Invited Article, Journal of Applied Statistical Sciences, Volume 18, Issue 4.
34. *Miyahara, S, and **Wahed, AS** (2010). Weighted Kaplan-Meier Estimators for Two-Stage Treatment Regimes. Statistics in Medicine, 2010; 29: 2581-2591.
35. **Wahed, AS**(2010). Inference for Two-Stage Adaptive Treatment Strategies Using Mixture Distributions. Journal of Royal Statistical Society Series C (Applied Statistics) Appl. Statist. (2010) 59.
36. *Feng, W and **Wahed, AS** (2009). Sample Size for Two-Stage Studies with Maintenance Therapy. Statistics in Medicine, 2009; 28: 2028-2041
37. **Wahed, AS** ,Luong, T, and Jeong, J-H (2009). A new generalization of Weibull distribution with application to a breast cancer data set. Statistics in Medicine, 2009; 28: 2077-2094
38. **Wahed, AS** (2009). Estimation of survival quantiles in two-stage randomization designs, Journal of Statistical Planning and Inference 139 (2009) 2064-2075.
39. *Feng, W and **Wahed, AS** (2008). A supremum log rank test for comparing adaptive treatment strategies and corresponding sample size formula, Biometrika. 95, 3, pp. 695-707.
40. Ali, MM, Woo, J, Pal, M and **Wahed, AS** (2008). Some Skew-Symmetric Double Inverted Distributions. International Journal of Statistical Sciences. Vol. 7, pp. 1-12.
41. **Wahed, AS** (2007). The family of curvi-triangular distributions. International Journal of Statistical Sciences, Vol 6, pp 7-18.
42. **Wahed, AS** and Tsiatis, AA (2006). Semi-parametric Efficient Estimation of The Survival Distribution for Treatment Policies in Two-Stage Randomization Designs in Clinical Trials with Censored Data. Biometrika Vol 93: pp. 147-161.
43. **Wahed, AS** (2006). Bayesian Inference Using Burr Model Under Asymmetric Loss Function: An Application to Carcinoma Survival Data. Journal of Statistical Research, 2006, Vol. 40, No. 1, pp. 45-57.
44. **Wahed, AS**. (2006). A General Method of Constructing Extended Families of Distributions from an Existing Continuous Class. Journal of Probability and Statistical Science 4(2), 165-177.
45. *Feng, W and **Wahed, AS** (2006). A Review of Inferential Procedures for Survival Analysis in Two-Stage Randomization Designs. Far East Journal of Theoretical Statistics Vol. 19 (1), pp 117-139.
46. **Wahed, AS** and Tsiatis, A. A.(2004). Optimal estimator for the survival distribution and related quantities for treatment policies in two-stage randomization designs in clinical trials, Biometrics, Vol. 60, No. 1. pp 124-133.
47. **Wahed, AS** and Ali, MM (2001). The Skew-Logistic Distribution. Journal of Statistical Research, Vol. 35, No,2, pp. 71-80.

48. **Wahed, AS** and Uddin, B (1998). Bayes Estimation Under Asymmetric Loss. Dhaka University Journal of Science, Vol. 46.

Interdisciplinary Work

49. Liu,S, Ma, ZQ, Songer, TJ, Mair, C. **Wahed, AS**, Krans, E, Talbott, E. (2022). Effect of HCV or HIV infection on mortality among hospitalized persons who used opioids, 20002010. Preventive Medicine, 161, https://doi.org/10.1016/j.ypmed.2022.107155.
50. Tony, S.R., Haque, N., Siddique, A.E., Khatun, M., Rahman, M., Islam, Z., Islam, M.S., Islam, J., Hossain, S., Hoque, M.A. and Saud, Z.A., Sumi, D, **Wahed, AS**, Barchowsky, A, Himeno, S, Hossain, K (2022). Elevated serum periostin levels among arsenic-exposed individuals and their associations with the features of asthma. Chemosphere, 298, p.134-277.
51. Lisker-Melman, M., **Wahed, A.S.**, Ghany, M.G., Chung, R.T., King, W.C., Kleiner, D.E., Bhan, A.K., Khalili, M., Jain, M.K., Sulkowski, M. and Wong, D.K. (2022). HBV Transcription and Translation Persist Despite Viral Suppression in HBV-HIV Co-Infected Patients on Antiretroviral Therapy. Hepatology.
52. Hinerman, A.S., Barinas-Mitchell, E.J., El Khoudary, S.R., Courcoulas, A.P., **Wahed, A.S.**, and King, W.C. (2022). Change in C-reactive protein after Roux-en-Y gastric bypass through 7 years of follow-up. Surgery for Obesity and Related Diseases.
53. Terrault, N. A., **Wahed, A. S.**, Feld, J. J., Cooper, S. L., Ghany, M. G., Lisker-Melman, M., ··· and Janssen, H. L. (2022). Incidence and prediction of HBsAg seroclearance in a prospective multi?ethnic HBeAg?negative chronic hepatitis B cohort. Hepatology, 75(3), 709-723.
54. Hinerman, A.S., El Khoudary, S.R., **Wahed A.S.**, Courcoulas, A.P., Barinas-Mitchell, E.J. and King, W.C. (2021). Predictors of change in cardiovascular disease risk and events following gastric bypass: a 7-year prospective multi-center study. Surgery for Obesity and Related Diseases, 17(5), pp.910-918.
55. Sterling, R. K., King, W. C., Khalili, M., Chung, R. T., Sulkowski, M., Jain, M. K.,Lisker-Melman, M., Ghany, M.G., Wong, D.K., Hinerman, A.S., Bhan, A.K., **Wahed AS**, Kleiner, DE for HIV-HBV Cohort Study of the Hepatitis B Research Network (2021). A Prospective Study Evaluating Changes in Histology, Clinical and Virologic Outcomes in HBV-HIV Co-infected Adults in North America. Hepatology 74 (3), 1174-1189.
56. Traum D, Wang YJ, Schwarz KB, Schug J, Wong DK, Janssen HL, Terrault NA, Khalili M, **Wahed AS**, Murray KF, Rosenthal P. Highly multiplexed 2-dimensional imaging mass cytometry analysis of HBV-infected liver. JCI insight. 2021 Feb 23.
57. Lau DT, GanovaRaeva L, Wang J, Mogul D, Chung RT, LiskerMelman M, Chang KM, Shaikh OS, Janssen HL, **Wahed AS**, Lok AS. Precore and basal core promoter hepatitis B virus (HBV) variants are present from a young age and differ across HBV genotypes. Hepatology, 73(5), pp.1637-1651.
58. Hinerman, A. S., Barinas-Mitchell, E. J., El Khoudary, S. R., Courcoulas, A. P., **Wahed, A. S.**, & King, W. C. (2020). Change in predicted 10-year and lifetime cardiovascular disease risk after Roux-en-Y gastric bypass. Surgery for Obesity and Related Diseases 16 (8), 1011-1021.
59. Brahmania, M., Liu, S., **Wahed, A.S.**, Yim, C., Hansen, B. E., Khalili, M., ... & Wong, D. (2020). Alcohol, tobacco and coffee consumption and liver disease severity among individuals with Chronic Hepatitis B infection in North America. Annals of Hepatology, 19 (4), 437-445.
60. Evon, DM, Lin, HHS, Khalili, M, Fontana, RJ, Yim, C, **Wahed, AS**, Fried, MW, Hoofnagle, JH, for the Hepatitis B Research Network (HBRN) (2020). Patientreported outcomes in a large North American cohort living with chronic hepatitis B virus: a crosssectional analysis. Aliment PharmacolTher. 2020; 51: 457 468. https://doi.org/10.1111/apt.15618
61. Sterling, Richard K; King, Wendy C; **Wahed, AS**; Kleiner, David E; Khalili, Mandana; Sulkowski, Mark; Chung, Raymond T; Jain, Mamta K; LiskerMelman, Mauricio; Wong, David K (2020). Evaluating noninvasive markers to identify advanced fibrosis by liver biopsy in HBV/HIV co-infected adults. Hepatology 71 (2), 411-421.

62. Navarro, Victor J; Belle, Steven H; DAmato, Massimo; Adfhal, Nezam; Brunt, Elizabeth M; Fried, Michael W; Reddy, K Rajender; **Wahed, AS**; Harrison, Stephen; Silymarin in NASH and C Hepatitis (SyNCH) Study Group (2019). Silymarin in non-cirrhotics with non-alcoholic steatohepatitis: A randomized, double-blind, placebo controlled trial. PloS one 14 (9) e0221683.
63. Zhou, Kali, **Wahed, AS**, Cooper, Stewart, Di Bisceglie, Adrian M, Fontana, Robert J, Ghany, Marc G, Khalili, Mandana, Lok, Anna S, Perrillo, Robert, Lee, William M, Lau, DT, Sterling, R, Janssen, HL, and Terrault, N (2019). Phase Transition Is Infrequent Among North American Adults With e-Antigen-Negative Chronic Hepatitis B and Low-Level Viremia. American Journal of Gastroenterology. 114 (11), 1753-1763.
64. Friedman, Allon N; Wang, Junyao; **Wahed, AS**; Docherty, Neil G; Fennern, Erin; Pomp, Alfons; Purnell, Jonathan Q; le Roux, Carel W; Wolfe, Bruce (2019). The Association Between Kidney Disease and Diabetes Remission in Bariatric Surgery Patients With Type 2 Diabetes. American Journal of Kidney Diseases. 74 (6), 761-770.
65. Liu, Stephen J; Mair, Christina; Songer, Thomas J; Krans, Elizabeth E; **Wahed, A**; Talbott, Evelyn (2019). Opioid-related hospitalizations in Pennsylvania: a latent class analysis. Drug and alcohol dependence. 202 pp 185-190.
66. Karp, Jordan F; Zhang, Jun; **Wahed, Abdus S**; Anderson, Stewart; Dew, Mary Amanda; Fitzgerald, G Kelley; Weiner, Debra K; Albert, Steve; Gildengers, Ari; Butters, Meryl (2019). Improving Patient Reported Outcomes and Preventing Depression and Anxiety in Older Adults With Knee Osteoarthritis: Results of a Sequenced Multiple Assignment Randomized Trial (SMART) Study. The American Journal of Geriatric Psychiatry, 27 (10), 1035-1045.
67. Chang, Kyong-Mi; Traum, Daniel; Park, Jang-June; Ho, Suzanne; Ojiro, Keisuke; Wong, David K; **Wahed, Abdus S**; Terrault, Norah A; Khalili, Mandana; Sterling, Richard K (2019). Distinct phenotype and function of circulating V?1+ and V?2+ ??T-cells in acute and chronic hepatitis B. PLoS Pathogens.15 (4) e1007715
68. King, Wendy C; Hinerman, Amanda S; Belle, Steven H; **Wahed, Abdus S**; Courcoulas, Anita P (2018). Comparison of the performance of common measures of weight regain after bariatric surgery for association with clinical outcomes. Journal of the American Medical Association. 320 (15) 1560-1569.
69. Field, Alison E; Inge, Thomas H; Belle, Steven H; Johnson, Geoffrey S; **Wahed, Abdus S**; Pories, Walter J; Spaniolas, Konstantinos; Mitchell, James E; Pomp, Alfons; Dakin, Gregory F (2018). Association of Obesity Subtypes in the Longitudinal Assessment of Bariatric Surgery Study and 3-Year Postoperative Weight Change. Obesity 26 (12) 1931-1937.
70. Sterling, Richard K., **Wahed, Abdus S.**, King, Wendy C., Kleiner, David E., Khalili, Mandana, Sulkowski, Mark, Chung, Raymond T., Jain, Mamta K., Lisker-Melman, Mauricio, Wong, David K., Ghany, Marc G., for the HIV-HBV Cohort Study of the Hepatitis B Research Network (2018). Spectrum of liver disease in hepatitis B virus (HBV) patients co-infected with human immunodeficiency virus (HIV): Results of the HBV-HIV cohort study. American Journal of Gastroenterology: May 2019 - Volume 114 - Issue 5 - p 746-757.
71. O'Rourke, RW, Johnson, GH, Purnell, JQ, Courcoulas, AP, Dakin, GF, Garcia, L, Hinojosa, M, Mitchell, JM, Pomp, A, Pories, WJ, Spaniolas, K, Flum, DR, **Wahed, AS**, and Wolfe, BM (2019). Serum biomarkers of inflammation and adiposity in the LABS cohort: associations with metabolic disease and surgical outcomes. International Journal of Obesity 43 (2), 285.
72. Karp, JF, Gao, X, **Wahed, AS**, Morse, JQ, Rollman, BL, Weiner, DK, Reynolds, CF (2018). Effect of Problem Solving Therapy Versus Supportive Management in Older Adults with Low Back Pain and Depression While on Antidepressant Pharmacotherapy. The American Journal of Geriatric Psychiatry, 26 (7), 765-777.
73. Purnell, JQ, Johnson, GS, **Wahed, AS**, Dalla Man, C, Piccinini, F, Cobelli, C, Prigeon, RL, Goodpaster, BH, Kelley, DE, Staten, MA, Foster-Schubert, KE, Cummings, DE, Flum, DR, Courcoulas, AP, Havel, PJ, Wolfe, BM (2018). Prospective evaluation of insulin and incretin dynamics in obese adults with and without diabetes for 2 years after Roux-en-Y gastric bypass. Diabetologia. 2018 May;61(5):1142-1154. doi: 10.1007/s00125-018-4553-y. Epub 2018 Feb 10.

74. Friedman, AN **Wahed, AS**, Wang, J, Courcoulas, AP, Dakin, G, Hinojosa, MW, Kimmel, PL, Mitchell, JE, Pomp, A, Pories, WJ, Purnell, JQ, le Roux, C, Spaniolas, K, Steffen, K, Thirlby, R, Wolfe, B (2018). Effect of Bariatric Surgery on CKD Risk. J Am Soc Nephrol. April 2018 29: 1289-1300.
75. Jakicic, JM, Davis, KK, Rogers, RJ, King, WC, Marcus, MD, Helsel, D, Rickman, AD, **Wahed, AS**, and Belle, SH (2016). Effect of Wearable Technology Combined with a Lifestyle Intervention on Long-Term Weight Loss: the IDEA Randomized Clinical Trial. JAMA. 2016;316(11):1161-1171. doi:10.1001/jama.2016.12858
76. Hassan, MA, Kim, WR, Li, R, Smith, CL, Fried, MW, Sterling, RK, Ghany, MG, **Wahed, AS**, Ganova-Raeva, LM, Roberts, LR, Lok, AS for the Hepatitis B Research Network (2016). Characteristics of US-born versus Foreign-born Americans of African Descent with Chronic Hepatitis B. American journal of epidemiology 186 (3), 356-366.
77. Purnell, JQ, Selzer, F, **Wahed, AS**, Pender, J, Pories, W, Pomp, A, Dakin, G, Mitchell, J, Garcia, L, Staten, MA (2016). Type 2 Diabetes Remission Rates After Laparoscopic Gastric Bypass and Gastric Banding: Results of the Longitudinal Assessment of Bariatric Surgery Study. Diabetes care 39 (7), 1101-1107.
78. Park JJ, Wong DK, **Wahed, AS**, Lee WM, Feld JJ, Terrault N, Khalili M, Sterling RK, Kowdley KV, Bzowej N, Lau DT, Kim WR, Smith C, Carithers RL, Torrey KW, Keith JW, Levine DL, Traum D, Ho S, Valiga ME, Johnson GS, Doo E, Lok AS, Chang KM; Hepatitis B Research Network. Hepatitis B Virus-Specific and Global T-Cell Dysfunction in Chronic Hepatitis B. Gastroenterology. 2016 Mar;150(3):684-695.e5. doi: 10.1053/j.gastro.2015.11.050. Epub 2015 Dec 10. PMID: 26684441
79. Evon DM, **Wahed, AS**, Johnson G, Khalili M, Lisker-Melman M, Fontana RJ, Sarkar S, Reeve BB, Hoofnagle JH. Fatigue in Patients with Chronic Hepatitis B Living in North America: Results from the Hepatitis B Research Network (HBRN).Dig Dis Sci. 2016 Apr;61(4):1186-96. doi: 10.1007/s10620-015-4006-0. Epub 2016 Jan 30.
80. Karp JK, Dew MA, **Wahed, AS**, Fitzgerald K, Bolon CA, Weiner DK, Morse JQ, Albert SM, Butters MA, Gildengers AG, Reynolds CF III: Challenges and Solutions for Depression Prevention Research: Methodology for a Depression Prevention Trial for Older Adults with Knee Arthritis and Emotional Distress. Am J Geriatr Psychiatry. 2015 Nov 17. pii: S1064-7481(15)00277-8. doi: 10.1016/j.jagp.2015.10.012. [Epub ahead of print]
81. Jakicic JM, King WC, Marcus MD, Davis KK, Helsel D, Rickman AD, Gibbs BB, Rogers RJ, **Wahed, A**, Belle SH. Short-Term Weight Loss with Diet and Physical Activity in Young Adults: the IDEA Study. Obesity (Silver Spring). 2015 Dec;23(12):2385-97. doi: 10.1002/oby.21241. Epub 2015 Nov 5. PMID: 26538477.
82. Gibbs BB, King WC, Davis KK, Rickman AD, Rogers RJ, **Wahed A**, Belle SH, Jakicic, JM. Objective vs. Self-report Sedentary Behavior in Overweight and Obese Young Adults (2015). Journal of Physical Activity and Health, 2015, 12, 1551-1557. http://dx.doi.org/10.1123/jpah.2014-0278.
83. Jakicic JM, King WC, Gibbs BB, Rogers RJ, Rickman AD, Davis KK, **Wahed, A**, Belle SH. Objective versus Self-Reported Physical Activity in Overweight and Obese Young Adults. J Phys Act Health. 2015 Oct;12(10):1394-400. doi: 10.1123/jpah.2014-0277. Epub 2015 Jan 19. PMID: 25599334 .
84. Al-Khafaji, A, Elder, M, Lebovitz, DJ, Murugan, R, Souter, M, Stuart, S, **Wahed, AS**, Keebler, B, Dils, Mitchell, S, Shutterly, K, Wilkerson, D, Pearse, D, Kellum, JA(2015). Protocolized fluid therapy in brain-dead donors: The multi-center randomized MOnITOR trial. Intensive Care Med. 2015 Mar;41(3):418-26. doi: 10.1007/s00134-014-3621-0. Epub 2015 Jan 13. PMID: 25583616.
85. Smith, MD, Patterson, E, and **Wahed, AS**, et al.(2014). Technical Factors Associated with Anastomotic Leak after RYGB. Surg Obes Relat Dis. 2015 Mar-Apr;11(2):313-20. doi: 10.1016/j.soard.2014.05.036. Epub 2014 Nov 8.PMID: 25595919.
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112. Yee, LJ, Im, K, **Wahed, AS** et al. for the Virahep-C Study Group (2009). Polymorphism in the human MHC and the early viral decline during treatment of chronic hepatitis C, Antimicrob. Agents Chemother. Feb 2009, p 615-621.
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115. Murugan, R, Venkataraman, R, **Wahed, AS**, Elder, M, Hergenroeder, G, Carter, M, Madden, NJ, Powner, D, Kellum, JA On behalf of the HIDonOR Study Investigators (2008). Increased plasma IL-6 in donors is associated with lower recipient hospital-free survival after cadaveric organ transplantation. Crit Care Med 2008; 36:1810-1816.
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117. Dowling, TC, **Wahed, AS**, Paul, M, Terrault, NA, Taylor, M, Jeffers, L, Hoofnagle, JH, and Howell, CD for the Virahep-C Study Group (2008). Peginterferon Pharmacokinetics in African

American and Caucacian American Patients with Hepatitis C Virus Genotype 1 Infection, Clinical Gastroenterology and Hepatology 2008;6:575-583.

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121. Yee, LJ, Tang, Y, Kleiner, DE, Wang, D, Im, K, **Wahed, AS**, Tong, X, Rhodes, S, Su, X, Whelan, MR, Ghany, MG, Borg, B, Fontana, RJ, Liang, J and Yang, H for the Virahep-C Study Group (2007). Mxyovirus-1 (Mx1) and protein kinase (PKR) haplotypes and fibrosis in chronic HCV, Hepatology, 2007, 46 (1): 74-83.
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Other Publications

123. **Wahed, AS** (2010). Unbiased Estimator. Encyclopedia of Research Design. Edited by Neil J. Salkind, Sage Publications, Newbury Park, CA.
124. **Wahed, AS** (2010). Adaptive Designs in Clinical Trials. Encyclopedia of Research Design. Edited by Neil J. Salkind, Sage Publications, Newbury Park, CA.
125. **Wahed, AS** and Miyahara, S. (2010). Group Sequential Designs in Clinical Trials. Encyclopedia of Research Design. Edited by Neil J. Salkind, Sage Publications, Newbury Park, CA.
126. **Wahed, AS** and Tang, X. (2010). Analysis of Variance. Encyclopedia of Research Design. Edited by Neil J. Salkind, Sage Publications, Newbury Park, CA.
127. **Wahed, AS** and Hsu, J. (2010). Cause-and-Effect. Encyclopedia of Research Design. Edited by Neil J. Salkind, Sage Publications, Newbury Park, CA.
128. **Wahed, AS**. (2006) "Censored Data". Entry in Encyclopedia of Measurement and Statistics. Sage Publications, , Newbury Park, CA.
129. **Wahed, AS** and Uddin B (1997). Empirical Bayes Estimator of Burr Parameters Based on the EM Algorithm. Statistics Preprint Series, School of Mathematics, University of New South Wales, Report S97-3, May 1997.

**Presentations**

Invited Presentations

1. June 2022. Imputation-Based Q-Learning for Optimizing Dynamic Treatment Regimes with Right-Censored survival Data. Institute of Mathematical Statistics Annual Meeting, London, United Kingdom.
2. June 2022. Robust Q-Learning for Optimizing Dynamic Treatment Regimes with Right-Censored survival Data. Webinar on Recent Trends in Statistical Theory and Applications . "National Statistics Day Celebrations 2022". Indian Society for Probability and Statistics (ISPS) and Kerala Statistical Association (KSA).
3. April 2022. Imputation-Based Q-Learning for Optimizing Dynamic Treatment Regimes with Right-Censored survival Data. Keynote Speech in Celebrating the 50 years of Statistics Program, Ball State University, Muncie, Indiana.

4. March 2022. Interim Monitoring in Sequential Multiple Assignment Randomized Trials. International Biometric Society ENAR Spring Meeting (virtual).
5. March 2022. Imputation-Based Q-Learning for Optimizing Dynamic Treatment Regimes with Right-Censored survival Data. University of Rochester Department of Biostatistics and Computational Biology.
6. January 2022. Invited Panelist: Advancing our Profession: Awards and Nominations Justice, Equity, Diversity, and Inclusion (JEDI) Outreach Group Webinar. American Statistical Association.
7. July 2021. Biostatistics and Health Data Science for Precision Medicine. Department of Biostatistics and Health Data Science. Indiana University School of Medicine, Indianapolis, IN.
8. March 2021. Adaptive Randomization in Two-stage Sequential Multiple Assignment Randomized Trials. ENAR Spring Meetings (Virtual).
9. November 2020. Epidemiology and Biostatistics for Healthier Communities. Department of Epidemiology and Biostatistics, Indiana University School of Public Health - Bloomington.
10. October 2020. World Statistics Day 2020. Department of Statistics, University of Dhaka, Bangladesh.
11. September 2020. Modified Q-Learning to Account for Subsequent Therapy in Randomized Trial of Leukemia. ASA Bio-pharmaceutical Section Regulatory-Industry Statistics Workshop.
12. September 2020. Opportunities and Challenges for Statisticians During Pandemics. Department of Applied Statistics, University of Dhaka, Bangladesh.
13. December 2019. Modified Parametric Regression-Based Q-Learning for Optimal Treatment Regimes for Leukemia. Department of Biostatistics, Virginia Commonwealth University, Richmond, VA.
14. May 2019. Optimizing Dynamic Treatment Regimes Based on Quality-Adjusted Survival Lifetime Data Science Conference, Pittsburgh, PA.
15. May 2019. SMART trials for Optimal Dynamic Treatment Regimes for Leukemia Adaptive Design Scientific Working Group Webinar (attended by more than 100 unique members).
16. April 2019. Parametric Regression Models for Optimal Treatment Regimes for Leukemia. Division of Public Health Sciences, Fred Hutchinson Cancer Center, Seattle, WA.
17. April 2019. Accelerated Failure Time Models for Individualizing Treatment Regimes for Leukemia. Department of Biostatistics, Epidemiology, and Informatics, University of Pennsylvania, Philadelphia, PA.
18. November 2018. Statistical Analysis of SMART Studies via Artifcial Randomization. Statistical and Computational Challenges in Precision Medicine Workshop, Institute of Mathematics and Its Applications, University of Minnesota, Minneapolis, MN.
19. September 2018. Inference about dynamic treatment regimes optimizing response to treatments Department of Biostatistics and Department of Biomedical Informatics Mini-Retreat, GSPH, Pittsburgh, PA.
20. August 2018. Discovering the Future: Individualized Treatment, Data Science, and Beyond Department of Biostatistics, University of Minnesota, Minneapolis, MN.
21. December 2017. Estimating Cumulative Incidence Function of Dynamic Treatment Regimes. International Indian Statistical Association Annual Conference 2017, Hyderabad, India.
22. December 2017. Professional Development for Graduate Students. Invited Seminar, Department of Applied Statistics, Institute of Statistical Research and Training, University of Dhaka, Dhaka, Bangladesh.
23. December 2017. Missing Data and Causal Inference Using Inverse Weighting. Invited Seminar, Department of Statistics, University of Dhaka, Dhaka, Bangladesh.
24. May, 2017. Statistical Methods for Dynamic Treatment Regimens and Sequential Multiple Assignment Randomized Trial American Statistical Association Biopharmaceutical Section Webinar
25. April, 2017. Statistical Analysis of SMART Studies via Artificial Randomization Department of Biostatistics and Computational Biology, University of Rochester, Rochester, NY

26. April, 2017. Inference for Dynamic Treatment Regimes from SMART Studies via Artificial Randomization Department of Biostatistics and Biomedical Informatics, University of Wisconsin-Madison, Madison, WI
27. January, 2017. Inference for Dynamic Treatment Regimes in the Presence of Drop-Out Department of Biostatistics, Graduate School of Public Health, University of Pittsburgh
28. November 2016. Estimating the Cumulative Incidence Function of Dynamic Treatment Regimes. Department of Applied Statistics, University of Dhaka, Dhaka, Bangladesh.
29. November 2016. Inference for Dynamic Treatment Regimes in the Presence of Drop-Out. Invited Seminar, Department of Statistics, University of Dhaka, Dhaka, Bangladesh.
30. November 2016. Professionalism and Career Development. Invited Seminar, Department of Statistics, University of Dhaka, Dhaka, Bangladesh.
31. November 2016. Missing Data in Longitudinal Studies. Three-hour Workshop at the International Conference on Repeated Measures organized by the Department of Applied Statistics, East West University, Dhaka, Bangladesh.
32. November 2016. Bayesian Hierarchical Joint Modeling of Repeatedly Measured Mixed Biomarkers of Disease Severity and Time-to-Event. Plenary talk at the International Conference on Repeated Measures organized by the Department of Applied Statistics, East West University, Dhaka, Bangladesh.
33. October 2016. Invited talk at the 75th Anniversary of North Carolina State University (NCSU) Statistics Department. Department of Statistics, NCSU, Raleigh, NC.
34. September 2016. Inference for Dynamic Treatment Regimes in the Presence of Drop-Out. Department of Statistics, Virginia Tech, Blacksburg, VA.
35. August 2016. Global Challenges and Collaboration in Biopharmaceutical Statistics Panelist, Joint Session by ASA Biopharmaceutical Section and Committee on International Relations in Statistics.
36. February 2016. Statistical Methods for Comparing Dynamic Treatment Regimes with Time-to-Event Endpoints. Division of Biostatistics, University of Miami, Florida
37. December 2015. On Some Distributions in Connection with Pareto's Law by Professor ANM Muniruzzaman. ANM Muniruzzaman Memorial Session, Second International Conference on Probability and Statistics, Department of Statistics, University of Dhaka, Bangladesh
38. December 2015. ANM Muniruzzaman: A pioneer in statistical research and training in Bangladesh. ANM Muniruzzaman Memorial Session, Second International Conference on Probability and Statistics,Department of Statistics, University of Dhaka, Bangladesh
39. December 2015. SMART Inference for SMART studies. Ninth Triennial Calcutta Symposium, Department of Statistics, University of Calcutta, Calcutta, India.
40. December 2015. Professionalism and Career Development. Department of Public Health Sciences, Daffodil International University, Dhaka, Bangladesh.
41. January 2015. Nonparametric and Parametric Inferences for Dynamic Treatment regimes. STAT Quest 2015, Department of Statistics, University of Calcutta, Calcutta, India.
42. January 2015. Early Viral Kinetics and Its Relationship to Sustained Virological Response: Results from a Multi-Center Study of Hepatitis C. James P Grant School of Public Health, BRAC University, Dhaka, Bangladesh.
43. December 2014. Statistical Analysis of SMART Studies via Artificial Randomization. International Conference on Applied Statistics, Dhaka, Bangladesh.
44. November 2014. Baseline Covariate Adjustment in SMART Studies via Artificial Randomization. IMPACT Conference, Cary, North Carolina.
45. October 2014. Hypothesis Testing in Sequentially Randomized Designs via Artificial Randomization. Department of Biostatistics, Columbia University, Newyork, NY.
46. October 2014. Evaluation of Dynamic Treatment Regimes from SMART via Artificial Randomization. Department of Epidemiology and Biostatistics, Case Western Reserve University, Cleveland, Ohio.

47. October 2014. SMART estimators for SMART Studies. International Conference on Advances in Interdisciplinary Statistics and Combinatorics (AISC) - 2014, Greensboro, NC.
48. September 2014. Likelihood-Based and Nonparametric Inference for Dynamic Treatment Regimes in Leukemia. Department of Biostatistics, University of Pittsburgh.
49. August 2014. Design of Sequentially Randomized Trials for Comparing Adaptive Treatment Strategies. Joint Statistical Meeting, 2014, Boston, Massachussets.
50. July 2013. Dynamic Treatment Regime, Sequentially Randomized Designs, and Semi-parametric Theory. Tsiatis Symposium, North Carolina State University.
51. June 2013. Joint Modeling of Multivariate Ordinal Medication Adherence Data. ICSA-ISCB joint conference in Bethesda, Maryland.
52. June 2013. Statistical methods for comparing adaptive treatment strategies in SMART designs with time-to-event endpoints.Guelph Biomathematics and Biostatistics Symposium: Adaptive Strategies in Epidemiology, Ecology, and Engineering, University of Guelph, Ontario, Canada.
53. April 2013. Evaluating joint effects of induction-salvage treatment regimes on overall survival in acute leukaemia. Joint Statisticians in the Pharmaceutical Industry and Royal Statistical Society's Journal Club Meeting on Survival Analysis.
54. March 2013. Covariate-Adjusted Comparison of Dynamic Treatment Regimes in Sequentially Randomized Designs. ENAR Spring Meetings, Orlando, Florida.
55. January 2013. Cumulative Adjusted Hazard Ratio Estimation for Dynamic Treatment Regimes. Department of Statistics, University of Dhaka.
56. January 2013. A Joint Modeling Approach for Multiple Ordinal Processes via Generalized Estimating Equations. Institute of Statistical Research and Training, University of Dhaka.
57. December 2012. Modeling Adherence to Multiple Medications: A Joint Modeling Approach via Generalized Estimating Equations. IMBIC conference, Calcutta.
58. December 2012. Statistical methods for comparing dynamic treatment regimes through sequentially randomized trials. 8th Triennial Statistics and Probability Symposium, Calcutta.
59. November 2012. Covariate-Adjusted Comparison of Dynamic Treatment Regimes in Sequentially Randomized Clinical Trials. Department of Biostatistics, University of Minnesota.
60. June 2012. Early Viral Kinetics in Hepatitis C. Summer Institute in Biostatistics, University of Pittsburgh.
61. June 2012. Study Designs. 29th Annual Meeting of the American Siciety of Metabolic and Bariatric Surgery, San Diego, California.
62. April 2012. Testing multiple adaptive treatment strategies in sequentially randomized clinical trials. Department of Biostatistics, University of Texas MD Anderson Cancer Center.
63. April 2012. Up-front vs. Sequential Randomization Designs for Comparing Adaptive Treatment Strategies. International Biometric Society (ENAR) spring meetings, 2012, Washington, DC.
64. June, 2011. Results from Virahep-C study, SIBS Seminar, Department of Biostatistics, University of Pittsburgh.
65. June, 2011. Personalized Medicine and Dynamic Treatment Regimes, Central Indiana Chapter of the American Statistical Association.
66. June, 2011. Risk Adjustment in Bariatric Surgery, 28th Annual Meeting of the American Society of Metabolic and Bariatric Surgery, Orlando, Florida.
67. March 2011. Evaluating the Joint Effect of Induction-Salvage Treatment Regimes in the Treatment of Leukemia. International Biometric Society (ENAR) spring meetings, 2011, Miami, Florida.
68. December, 2010. (Jointly with Dylan Small of U. of Pennsylvania) Invited Workshop Speaker on "Causal inference in observational studies and sequentially randomized designs", The First International Conference on Theory and Application of Statistics, Dhaka University Statistics Department Alumni Association, Dhaka, Bangladesh.

69. December, 2010. Accelerated failure time and proportional hazards models for sequentially randomized designs, The First International Conference on Theory and Application of Statistics, Dhaka University Statistics Department Alumni Association, Dhaka, Bangladesh.
70. November, 2010. Introduction to Survival Analysis (for non-statisticians) UPMC Mercy Graduate Medical Education Program, UPMC Mercy, Pittsburgh
71. May, 2010. Statistical inference for treatment strategies from two-stage randomization designs when second randomization is delayed 2010 ICSA Applied Statistics Symposium, Indianapolis, IN
72. February, 2010. Adaptive Designs in Clinical Trials. School of Medicine, University of Pittsburgh
73. December, 2009. Assessing the effect of treatment regimes on longitudinal outcome data. Department of Applied Statistics, University of Dhaka, Bangladesh
74. December, 2009. A new generalization to the Weibull distribution with an application to a breast cancer dataset. 7th triennial statistics and probability conference, Kolkata, India
75. November, 2009. Statistical methods for comparing dynamic treatment regimes with time-to-event endpoints. Department of Statistics, University of Pittsburgh
76. November, 2009. Statistical methods for comparing dynamic treatment regimes with time-to-event endpoints. Center for Statistical Sciences, Brown University, RI
77. August, 2009. Dynamic Treatment regimes in Leukemia Treatment. Joint Statistical Meetings 2009, American Statistical Association.
78. February, 2009. Adaptive Designs in Clinical Trials. School of Medicine, University of Pittsburgh.
79. September, 2008. Comparing adaptive treatment strategies following sequential multiple assignment randomization trials, Clinical and Translational Sciences Research Institute, CHRC, RAND-Pittsburgh Institute, VA-CHERP.
80. July, 2008. Inference on dynamic treatment regimes following sequential multiple assignment randomization trials, Center for Statistics at Queen Mary, University of London.
81. February, 2008. Adaptive treatment strategies- one step forward towards individualized treatment rules. Dean's Junior Faculty Seminar Series, Graduate School of Public Health, Pittsburgh.
82. February, 2008. Adaptive Designs in Clinical Trials. School of Medicine, University of Pittsburgh.
83. January 2008. Supremum weighted log-rank test and sample size for comparing two-stage adaptive treatment strategies. Department of Epidemiology, Biostatistics and Occupational Health, McGill University.
84. June 2007. Semi-parametric methods for estimating causal effect of treatment strategies in two-stage randomization clinical trials. ICSA 2007 Applied statistics Symposium, Raleigh, North Carolina.
85. May 2007. Weibull-based approaches to survival analysis with applications to breast cancer data. Department of Mathematical Sciences, Ball State University, Muncie, Indiana.
86. February 2007. Comparing Adaptive Treatment Strategies: Challenges and Solutions. Center for Health Equity, Research and Promotions (CHERP), VA Health Care System, Pittsburgh.
87. December 2006. Survival Analysis for Comparing Adaptive Treatment Strategies. Department of Applied Statistics, University of Dhaka, Dhaka, Bangladesh.
88. April 2006. Survival Analysis in Two-stage Randomization Designs in Leukemia Trials. Department of Mathematics and Statistics, University of Windsor, Windsor, Ontario.
89. February 2006. Survival Analysis in Two-stage Randomization Designs in Oncolgy Trials. Invited presentation, Department of Biostatistics, College of Public Health, University of Kentucky.
90. March 2005. Survival Analysis in Two-stage Randomization Designs. Invited lecture in the session Censored Data in the Environmental, Agricultural, and Medical Sciences. International Biometric Society (ENAR) spring meetings, 2006, Tampa, Florida.
91. March 2003. Optimal Estimator of the Survival Distribution and Related Quantities of Treatment Policies in Two-Stage Randomization Designs in Clinical Trials. University of Texas M.D. Anderson cancer Center.

92. March 2003. Optimal Estimator of the Survival Distribution and Related Quantities of Treatment Policies in Two-Stage Randomization Designs in Clinical Trials. Department of Biostatistics, and Department of Statistics and Actuarial Science, University of Iowa.
93. March 2003. Optimal Estimator of the Survival Distribution and Related Quantities of Treatment Policies in Two-Stage Randomization Designs in Clinical Trials. University of Pittsburgh Graduate School of Public Health.
94. February 2003. Optimal Estimator of the Survival Distribution and Related Quantities of Treatment Policies in Two-Stage Randomization Designs in Clinical Trials. Boston University School of Public Health.
95. February 2003. Optimal Estimator of the Survival Distribution and Related Quantities of Treatment Policies in Two-Stage Randomization Designs in Clinical Trials. Department of Biostatistics, University of Minnesota.
96. February 2003. Optimal Estimator of the Survival Distribution and Related Quantities of Treatment Policies in Two-Stage Randomization Designs in Clinical Trials. Department of Health Studies, University of Chicago.
97. February 2003. Optimal Estimator of the Survival Distribution and Related Quantities of Treatment Policies in Two-Stage Randomization Designs in Clinical Trials. Medical University of South Carolina.
98. January 2003. Survival Analysis in Two-Stage Randomization Designs in Clinical Trials. Department of Mathematics and Statistics, Georgia State University.
99. January 2003. Optimal Estimator of the Survival Distribution and Related Quantities of Treatment Policies in Two-Stage Randomization Designs in Clinical Trials. Department of Biostatistics and Epidemiology, University of Pennsylvania.

Contributed Presentations

1. (with Lingyun Lyu and Yu Cheng) Semiparametric Q-Learning for Optimal Dynamic Treatment Regime with Right-Censored Survival Outcome and Missing Treatment Data. SPEED Session Poster. Joint Statistical Meeting 2021 (virtual).
2. (Poster with Liwen Wu and Junyao Wang) Interim Monitoring of Sequential Multiple Assignment Randomized Trials. Joint Statistical Meeting 2020. Virtual (due to COVID 19).
3. (Poster with Liwen Wu and Junyao Wang) Group Sequential Analysis for Sequential Multiple Assignment Randomized Trials. ENAR Spring Meeting 2020. Virtual (due to COVID 19).
4. (with Geoffrey Johnson) Optimizing Acute Myelogenous Leukemia Treatment Regimes via Sequential Conditional Structural Mean Models. Joint Statistical Meeting, 2018, Baltimore, Maryland.
5. (Poster with Xiaotian Gao, Xinxin Dong, Chaeryon Kang) Inference on Mean Quality Adjusted Lifetime Using Joint Models for Continuous Quality of Life Process and Time to Event. ENAR Spring Meeting 2018, Atlanta, Georgia.
6. (with Ling-Wan Chen, Idil Yavuz, and Yu Cheng) Cumulative Incidence Regression for Dynamic Treatment Regimes. ENAR Spring Meeting 2017, Washington DC.
7. (Poster with Shannon M. Woolley and Jonathan G. Yabes). Test for Stratified Random Signs Censoring in Competing Risks. ENAR Spring Meeting 2017, Washington DC.
8. (with Yanxun Xu, Peter Mueller, presented by Peter Thall). Bayesian Nonparametric Estimation for Dynamic Treatment Regimes with Sequential Transition Times. JASA-ACS Invited Session - Invited Papers. . Joint Statistical Meeting 2016, American Statistical Association, Chicago, IL.
9. (with Geoff Johnson and Andrew Topp). Optimizing Dynamic Treatment Regimes via Quality-Adjusted Q-Learning and Threshold Utility Analysis for Subgroup Analysis in Clinical Trials (chosen as Honorable Mention for ASA Biopharmaceutical section student award). Joint Statistical Meeting 2016, American Statistical Association, Chicago, IL.
10. (with Song Zhang, Yu Cheng) Novel Diagnostic Accuracy Analysis for Competing Risks Outcomes with ROC Surfaces. ICSA Applied Statistics Symposium 2016, Atlanta, Georgia. (poster with

Yimeng Liu) A Class of Two-Sample Tests for Quantile Residual Life Time. ENAR Spring Meeting 2016, Austin, Texas.

11. (poster with Yimeng Liu) A Class of Two-Sample Tests for Quantile Residual Life Time. 2016 Pittsburgh Chapter Annual Banquet of the American Statistical Association, Pittsburgh, PA.
12. (poster with Andrew S. Topp and Geoff S. Johnson) Efficient Double Robust Estimation for Two-Stage Dynamic Treatment Regimes. ENAR Spring Meeting 2016, Austin, Texas.
13. (poster with Andrew S. Topp and Geoff S. Johnson) Efficient Double Robust Estimation for Two-Stage Dynamic Treatment Regimes. 2016 Pittsburgh Chapter Annual Banquet of the American Statistical Association, Pittsburgh, PA.
14. (with Idil Yavuz, Dokuz Eylul University, Turkey, Ling-Wan Chen, and Yu Cheng) Regression Analysis for Cumulative Incidence Function under Two-stage Randomization. ENAR Spring Meeting 2016, Austin, Texas.
15. (with Xiaoxue Li ; Stewart Anderson, and Saul Shiffman) Time-Varying Coefficient Models for Missing-by-Design Intensive Longitudinal Data. Joint Statistical Meetings, August 2015, Seattle, WA.
16. (with Yanxun Xu* and Peter Mueller, University of Texas, Austin, and Peter F. Thall, University of Texas MD Anderson Cancer Center) Bayesian Nonparametric Estimation for Dynamic Treatment Regimes with Sequential Transition Times, ENAR Spring Meeting 2015, Miami, Florida.
17. (with Semhar Ogbagaber) Regression Analysis of Sequentially Randomized Trials Through Artificial Randomization.Joint Statistical Meetings, August 2014, Boston, MA.
18. (with Abidemi Adeniji) Incorporating Diagnostic Accuracy into the Estimation of Discrete Survival Function with Lost-to-Follow-Up.Joint Statistical Meetings, August 2014, Boston, MA.
19. (with Yu-Ting Weng) Estimating a Dengue Ordinary Differential Equation Model with the Mesh Adaptive Direct Search Method, ENAR Spring Meeting, March 2014. Baltimore, Washington, DC
20. (with Emmanuel Sampene) A Simple Locally Efficient Estimator for Relative Risk in Case-cohort Studies, ENAR Spring Meeting, March 2014. Baltimore, Washington, DC.
21. (with Olive Buhule and Ada Youk) Bayesian Hierarchical Joint Modeling of Repeatedly Measured Continuous and Ordinal Markers of Disease Severity, ENAR Spring Meeting, March 2014. Baltimore, Washington, DC.
22. (with Semhar Ogbagaber) Regression Analysis of Sequentially Randomized Trials through Artificial Randomization, ENAR Spring Meeting, March 2014. Baltimore, Washington, DC.
23. A Flexible Correlation Structure for Joint Modeling of Multivariate Ordinal Medication Adherence Data. Joint Statistical Meetings, August 2013, Montreal, QC, Canada.
24. (with Emmanuel Sampene) Efficient Estimation of Relative Risk in Case-Cohort Studies. Joint Statistical Meetings, August 2013, Montreal, QC, Canada.
25. (with Semhar Ogbagaber) Design of Sequentially Randomized Trials for Comparing Adaptive Treatment Strategies, Society of Clinical Trials, May 2013, Boston, MA
26. (poster with Emmanuel Sampene) Efficient Estimation of Relative Risk in Case-Cohort Studies, 35th Midwest Biopharmaceutical Statistics Workshop, May 2013, Muncie, Indiana.
27. (poster with Emmanuel Sampene) Efficient Estimation of Relative Risk in Case-Cohort Studies, ASA Pittsburgh Chapter Banquet, April 2013, Pittsburgh, PA.
28. (with Kelley M. Kidwell) Weighted Log-rank Statistic to Compare Shared-path Adaptive Treatment Strategies. Joint Statistical Meetings, 2012, San Diego, CA.
29. (with Xinxin Dong and Lan Kong) Accelerated Failure Time Model for Case-Cohort Design with Longitudinal Covariates Measured with Error. Joint Statistical Meetings, 2012, San Diego, CA.
30. (with Kelley M. Kidwell) Weighted Log-rank Statistic to Compare Shared-path Adaptive Treatment Strategies. International Biometric Society (ENAR) spring meetings, 2012, Washington, DC.
31. (with Abidemi K. Adeniji) Discrete Survival Analysis with Misclassified Events. International Biometric Society (ENAR) spring meetings, 2012, Washington, DC.

32. (with Xinxin Dong and Lan Kong) Accelerated Failure Time Model for Case-Cohort Design with Longitudinal Covariates Measured with Error International Biometric Society (ENAR) spring meetings, 2012, Washington, DC.
33. (poster with Chetachi A. Emeremni) Analysis of Variance for Right Censored Survival Data. International Biometric Society (ENAR) spring meetings, 2012, Washington, DC.
34. (poster with Yenchih Hsu) Inference for Two-stage Treatment Depression Regimes from Longitudinal Studies. 34th Midwest Biopharmaceutical Statistical Workshop, May 2011, Muncie, Indiana.
35. (poster with Zhen Jiang) Joint Modeling of Multivariate Ordinal Longitudinal Outcome Using GEE: Application to Medication Adherence. 34th Midwest Biopharmaceutical Statistical Workshop, May 2011, Muncie, Indiana.
36. (poster with Kelley M. Kidwell) Weighted Log-rank Statistic to Compare Shared-path Adaptive Treatment Strategies. 34th Midwest Biopharmaceutical Statistical Workshop, May 2011, Muncie, Indiana.
37. (poster with Abidemi K. Adeniji) Discrete Survival Analysis with Mis-classified Events. 34th Midwest Biopharmaceutical Statistical Workshop, May 2011, Muncie, Indiana.
38. (poster with Chetachi A. Emeremni) Variable Selection Techniques in Weighted Least Squares. 34th Midwest Biopharmaceutical Statistical Workshop, May 2011, Muncie, Indiana.
39. (with Xinyu Tang) Weighted Cumulative Treatment Estimation for Sequentially Randomized Clinical Trials in the Presence of Non-proportional Hazards, ENAR Spring Meetings, 2011.
40. (with Yen-chih Hsu) Weighted GEE for Response-Adaptive Treatment Regimes in Two-Stage Longitudinal Studies, ENAR Spring Meetings, 2011.
41. (with Zhen Jiang) Joint Modeling of Ordinal and Binary Longitudinal Outcomes Using GEE: Application to Medication Adherence, ENAR Spring Meetings, 2011.
42. (Poster with Jesse Hsu) Causal Inference for Treatment Strategies from Two-Stage Randomization Designs. 34th Midwest Biopharmaceutical Statistical Workshop, May 2010, Muncie, Indiana.
43. (With Jinhui Ko) Nonparametric Estimation of Median Residual Life Function for Two-Stage randomization Designs. ENAR Spring meeting 2010.
44. (With Xinyu Tang) Cox Proportional Hazard Model for Dynamic Treatment Regimes. ENAR Spring meeting 2010.
45. (Poster with Jinhui Ko) Nonparametric Estimation of Median Residual Life Function for Two-Stage randomization Designs. 33rd Midwest Biopharmaceutical Statistical Workshop, May 2009, Muncie, Indiana.
46. (Poster with Xinyu Tang) Statistical Methods for Sequentially Randomized Trials: An Application to High-Risk Neuroblastoma Study. 33rd Midwest Biopharmaceutical Statistical Workshop, May 2009, Muncie, Indiana.
47. Supremum Weighted Log-rank Test and Sample Size for Comparing Two-stage Adaptive Treatment Strategies, July 2008, International Biometric Conference, Dublin.
48. Inverse-probability-weighting-based sample size formula for comparing two-stage adaptive treatment strategies. ENAR Spring Meetings 2008, Crystal City, Virginia.
49. Discussion on Two-Stage Treatment Strategies Based on Sequential Failure Times by Peter Thall (with Patricia Houck, and Jinhui Ko), ATSRG reading group meeting, November 2007, Department of Biostatistics, University of Pittsburgh Graduate School of Public Health.
50. (Poster with Sachiko Miyahara) Weighted Kaplan-Meier Estimator for Adaptive Treatment Strategies. SAMSI workshop on dynamic treatment regimes, June 2007, Statistical and Applied Mathematical Sciences Institute, RTP, North Carolina.
51. (Poster with The Minh Luong and Jong-Heyon Jeong) Weibull-based approaches to survival analysis: an application to a breast cancer data set. 30th Midwest Biopharmaceutical Statistical Workshop, May 2007, Muncie, Indiana.
52. A supremum log-rank test for two-stage adaptive treatment strategies and corresponding sample size formula, ENAR Spring Meetings 2007, Atlanta, GA (presented by Wentao Feng).

53. Introduction to Adaptive Treatment Strategies with Examples (with Sachiko Miyahara). ATSRG reading group meeting, March 2007, Department of Biostatistics, University of Pittsburgh Graduate School of Public Health.
54. Likelihood Inference for Survival Analysis in Two-stage Randomization Designs, Joint Statistical Meetings, August 2006, Seattle, Washington
55. (Poster with Wentao Feng) Inferences for Treatment Regimes in Two Stage Clinical Trials, Midwest Biopharmaceutical statistics workshop, May 2006, Muncie, Indiana.
56. (Poster with Conjeevaram et al.) Insulin Resistance Is Independent Of Hepatic Steatosis and Is Augmented By Environmental Factors Such As Obesity in Patients With HCV Genotype 1 Infection, DDW, Chicago, Illinois, May 2005.
57. (with Leland Ye) Genetic variation in an interferon-stimulated gene, mxyovirus-1 (MxA), has a significant protective effect from fibrosis in genotype-1 chronic hepatitis C virus infection, DDW, Chicago, Illinois, May 2005.
58. A non-linear mixed effect model for hepatitis C viral dynamics, International Biometric Society (ENAR) spring meetings, 2005, Austin, TX, March, 2005.
59. A non-linear mixed effect model for hepatitis C viral dynamics, Joint Statistical Meetings 2004, Toronto, Canada, August 2004 (Presented on behalf of Dr. Wahed by K Im).
60. Presented in the Faculty Seminar Series, Department of Biostatistics, University of Pittsburgh, October 2004.
61. (poster with Conjeevaram et al.)Race, Insulin Resistance, Visceral Adiposity and Hepatic Steatosis in Genotype 1 Patients with Chronic Hepatitis C, AASLD, November 2004.
62. Efficient Estimation of the Survival Distribution for Treatment Policies in Two-Stage Randomization Designs in Clinical Trials with Censored Data. International Biometric Society (ENAR) meeting 2004, Pittsburgh, PA , April 2004.
63. Optimal Estimator of the Survival Distribution and Related Quantities of Treatment Policies in Two-Stage Randomization Designs in Clinical Trials. Joint Statistical Meetings 2003, American Statistical Association, San Francisco, California, August 2003.
64. Optimal Estimator of the Survival Distribution and Related Quantities of Treatment Policies in Two-Stage Randomization Designs in Clinical Trials. International Biometric Society (ENAR) meeting 2003, Tampa, Florida, April 2003.

**Mentoring/Advising**

Junior Faculty

1. Jiebiao Wang. Assistant Professor of Biostatistics, Graduate School of Public Health.
   Informally mentoring Jiebiao; introduced him to collaborators to integrate him into research projects.
2. Chaeryon Kang. Assistant Professor of Biostatistics, Graduate School of Public Health.
   Chaeryon started collaboration on Hepatitis B Research Network (HBRN) project with me, and I also added her as a co-advisor for one of my graduated PhD students.
3. Ruosha Li. Associate Professor of Biostatistics and Data Science at The University of Texas Health Science Center at Houston.
   Ruosha was an Assistant Professor in the Department of Biostatistics at the University of Pittsburgh, where I was her official mentor for three years. She also collaborated on the HBRN Project with me during that time.
4. Wendy King. Associate Professor of Epidemiology, Graduate School of Public Health.
   Wendy started as a Research Associate back in 2004 in the Epidemiology Data Center, where I was an Assistant Professor serving as a statistician. Throughout the last 17 years, I have trained her in study designs and appropriate use of statistical methods and interpretation.

5. Ying Ding. Associate Professor of Biostatistics, Graduate School of Public Health.
   I have been an informal mentor of Ying providing her guidance on how to successfully navigate in the academia; recommended her as Associate Editor for statistical journals.
6. Mentored numerous faculty members as a member and Chair of the Faculty Appointment, Promotion, and Tenure Committee of GSPH.

PhD Students

1. Xue Yang. PhD in Biostatistics, Expected graduation: August 2024.
2. Adam Kruchten. PhD in Biostatistics, Expected graduation: August 2024.
3. Lingyun Lyu. PhD in Biostatistics, Expected graduation: August 2022.
4. Liwen Wu. PhD in Biostatistics, Expected graduation: August 2021
   Dissertation Title: Interim Monitoring and Sample Size Adjustment in Sequential Multiple Assignment Randomized Trials
   Entry position: Statistician, Takeda Pharmaceuticals
   Boston, MA.
5. Junyao Wang. PhD in Biostatistics, August 2021
   Dissertation Title: Adaptive Randomization in Sequential Multiple Assignment Randomized Trials
   Entry position: Statistician, Takeda Pharmaceuticals
   Boston, MA.
6. Xiaotan (Steven) Gao. PhD in Biostatistics, August 2020 [Co-Advisor: Chae Ryon Kang, PhD]
   Dissertation Title: Joint Model of Longitudinal and Survival Data, and Robust Nonparametric Regression
   Entry position: Assistant Professor, Department of Kinesiology,
   University of Illinois Urbana-Champaign.
7. Song Zhang. PhD in Biostatistics, December 2017 [Co-Advisor: Yu Cheng, PhD]
   Dissertation Title: Diagnostic accuracy analysis for ordinal competing risk outcomes using ROC surface
   Current Employer: Stat4ward.
8. Shannon Wooley. PhD in Biostatistics, August 2017 [Co-Advisor: Jonathan Yabes, PhD]
   Dissertation Title: Tests for random signs censoring in competing risks.
   Entry position: Statistician, Duke Clinical Research Institute, Durham, NC.
9. Yimeng Liu. PhD in Biostatistics, August 2017
   Dissertation Title: A series of two-sample non-parametric tests of quantile residual lifetime.
   Current position: Statistician, Amgen, Thousand Oaks, CA.
10. Andrew Topp. PhD in Biostatistics, September 2016
    Dissertation Title: Double Robust Estimator for Two-Stage Dynamic Treatment Regimes
    Current position: Statistician, Abbvie, North Chicago, IL.
11. Geoff Johnson. PhD in Biostatistics, June 2016
    Dissertation Title: Quality Adjusted Q-learning and Conditional Structural Mean Models for Optimizing Dynamic Treatment Regimes
    Current position: Statistician, Merck and Co., Inc.
12. Yu-Ting Weng. PhD in Biostatistics, December 2014
    Dissertation Title: Differential Equation Modeling of Dengue Incidence
    Current position: Mathematical Statistician, Food and Drug Administration.
13. Olive Buhule. PhD in Biostatistics, Summer 2014 [Co-Advisor: Ada Youk, PhD]
    Dissertation Title: Bayesian Hierarchical Joint Modeling of Continuous and Ordinal Markers of Disease Severity and Time-to-Event Data
    Current position: Research Scientist, University of Wisconsin, Madison, WI.
14. Semhar Ogbagabar. PhD in Biostatistics, Summer 2014
    Dissertation Title: Topics in Two-Stage Randomization Designs for Clinical Trials

Current position: Mathematical Statistician, Food and Drug Administration.

15. Emmanuel Sampene. PhD in Biostatistics, Summer 2013
Dissertation Title: Efficient Estimation of Relative Risk in Case-Cohort Studies
Current position: Research Scientist, University of Wisconsin, Madison, WI.
16. Xinxin Dong. PhD in Biostatistics, Summer 2013
Dissertation Title: Inference for Accelerated Failure Time Model with Longitudinal Covariates Measured with Error
Current position: Sr. Biostatistician, Takeda Pharmaceuticals Corporation
17. Chetachi Ememerni. PhD in Biostatistics, Summer 2012
Dissertation Title: Inference for Right Censored, and Right Censored Length Biased Data Through Inverse Weighting
Current position: Senior Manager, Biostatistics, Regeneron Pharmaceuticals, Inc., Basking Ridge, NJ.
18. Abidemi Adeniji. PhD in Biostatistics, Summer 2012
Dissertation Title: Incorporating Diagnostic Accuracy into the Estimation of Discrete Survival Function
Current position: Senior Director, Biostatistics, resTORBio.
19. Kelley Kidwell. PhD in Biostatistics, Summer 2012
Dissertation Title: Survival Analysis of Shared-Path Adaptive Treatment Strategies
Current position: Associate Professor of Biostatistics, University of Michigan, Ann Arbor, MI.
20. Zhen Jiang. PhD in Biostatistics, Summer 2011
Dissertation Title: Joint Analysis of Longitudinal Ordinal and Binary Data: Application to Multiple Medication Adherence.
Current position: Mathematical Statistician, Food and Drug Administration.
21. Jesse Hsu. PhD in Biostatistics, Summer 2011
Dissertation Title: Longitudinal Data Analysis from Depression Studies: Assessment of Intermediate-Outcome-Dependent Dynamic Interventions
Current position: Assistant Professor of Biostatistics, University of Pennsylvania, Philadelphia, PA.
22. Xinyu Tang. PhD in Biostatistics, Summer 2010
Dissertation Title: Analyzing Survival Data For Sequentially Randomized Designs
Current position: Mathematical Statistician, Food and Drug Administration
23. Jin Hui Ko. PhD in Biostatistics, Summer 2010
Dissertation Title: Inference on Median Residual Life Function from Sequentially Randomized Designs
Current position: Sr. Statistical Scientist, Genentech, South San Francisco, CA.
24. Sachiko Miyahara. PhD in Biostatistics, Summer 2009
Dissertation Title: Statistical Inference for Treatment Regimes for Longitudinal and Time-to-Event Data
Current position: Research Scientist, Center for Biostatistics in AIDS Research, Department of Biostatistics, Harvard University, Boston, MA.
25. Wentao Feng. PhD in Biostatistics, Spring 2008
Dissertation Title: Sample Size and Power for Comparing Two-Stage Adaptive Treatment Strategies
Current position: Director, Seattle Genetics, Seattle, WA.

**MS Students**

Nabil Awan. MS in Biostatistics, December 2020
Thesis Title: Association of early chronic systemic inflammation with depression at 12 months post-traumatic brain injury and a comparison of prediction models. Advisor

Yunfei Xie. MS in Biostatistics, December 2019
Thesis Title: Assessing risk factors and predicting sepsis mortality using logistic and survival methods. Advisor

Shekhar Mehta. MS in Biostatistics, Summer 2006
Thesis Title: Longitudinal Analysis of Renal Function using ZIP GEE on OLT Transplant Patients Undergoing NAC Prophylaxis Advisor

**Honors and Awards by Advisees (based on jointly written papers)**

2021 Lingyun Lyu, Statistical Significance Poster Award, 1st place, American Statistical Association.

2021 Liwen Wu, Biostatistics Research Day Award (First Place) Department of Biostatistics, GSPH.

2021 Liwen Wu, Steven Lagakos Student Award, Eastern Mediterranean Region of the International Biometric Society.

2020 Liwen Wu, Statistical Significance Poster Award, 1st place, American Statistical Association.

2020 Liwen Wu, Biopharmaceutical Section Student Scholarship Award from the American Statistical Association.

2019 Junyao Wang, Dean's Day Award (First Place) Department of Biostatistics, GSPH.

2016 Yimeng Liu, Mahela Serbin Award from the American Statistical Association Pittsburgh Chapter

2016 Geoffrey H Johnson, honorable mention, ASA Biopharmaceutical Section Student Award

2015 Ajmery Jaman, 1st prize of the prestigious 2015 ISI JAN TINBERGEN AWARDS

2013 Idil Yavuz, Dept. of Statistics, University of Pittsburgh, ENAR Student Award

2012 Kelley Kidwell, Best Student Paper by the Society for Clinical Trials

2012 Xinxin Dong, Best Student Paper Award
Statistics in Epidemiology Section of American Statistical Association (ASA)

2012 Kelley Kidwell, Best Student Paper Award
Biopharmaceutical Section, ASA

2011 Zhen Jiang, ENAR Student Award

2010 Xinyu Tang, ENAR Student Award

2008 Sachiko Myahara, Honorable Mention, Charlie Sampson Poster Award,
Midwest Biopharmaceutical Statistical Workshop

2007 Wentao Feng, ENAR Student Award

2007 Wentao Feng, Best Student Paper Award
Biopharmaceutical Section, ASA

**Teaching**

***University of Pittsburgh***

Spring 2021.
Biostat 2044: Statistical Theory II; T-F 11:00am-12:30pm, 3cr, 15 students; Primary Instructor.

Fall 2020.
Biostat 2050: Longitudinal and Clustered Data Analysis; W-F 10:00am-11:50am, 2cr, 38 students; Co-Primary Instructor.

Spring 2020.
Biostat 2044: Statistical Theory II; T-F 11:00am-12:30pm, 3cr, 5 students; Primary Instructor.

Fall 2019.
Biostat 2050: Longitudinal and Clustered Data Analysis; W-F 10:00am-11:50am, 2cr, 39 students; Co-Primary Instructor.

Spring 2019.
Biostat 2044: Statistical Theory II; T-F 11:00am-12:30pm, 3cr, 25 students; Primary Instructor.

Fall 2018.
Biostat 2050: Longitudinal and Clustered Data Analysis; W-F 10:00am-11:50am, 2cr, 44 students; Co-Primary Instructor.

Spring 2018.
Biostat 2044: Statistical Theory II; T-F 11:00am-12:30pm, 3cr, 20 students; Primary Instructor.

Spring 2017.
Biostat 2061: Likelihood Theory and Applications; M-F 1:00pm-2:55pm, 2cr, 10 students; Primary Instructor.

Spring 2016.
Biostat 2061: Likelihood Theory and Applications; M-F 1:00pm-2:55pm, 2cr, 8 students; Primary Instructor.

Spring 2015.
Biostat 2061: Likelihood Theory and Applications; M-F 1:00pm-2:55pm, 2cr, ~8 students; Primary Instructor.

Fall 2014.
Biostat 2051: Estimation Theory; M-W 1:00pm-2:25pm, 3cr, ~8 students; Primary Instructor.

Summer 2014.
Biostat 1200/1201: Introduction to Biostatistical Reasoning; M-F 10:00am-12:00 noon, 4cr, 19 students; Co-Instructor in SIBS Program.

Fall 2013.
Biostat 2051: Estimation Theory; M-W 1:00pm-2:25pm, 3cr, ~13 students; Primary Instructor.

Summer 2013.
Biostat 1200/1201: Introduction to Biostatistical Reasoning; M-F 10:00am-12:00 noon, 4cr, 20 students; Co-Instructor in SIBS Program.

Spring 2013.
Biostat 2094: Statistical Computing in R; Tu 10:00am-12:00 noon, 2cr, ~11 students; Primary Instructor.

Fall 2012.
Biostat 2051: Estimation Theory; M-W 1:00pm-2:25pm, 3cr, 13 students; Primary Instructor.

Summer 2012.
Biostat 1200/1201: Introduction to Biostatistical Reasoning; M-F 10:00am-12:00 noon, 4cr, 20 students; Co-Instructor in SIBS Program.

Spring 2012.
Biostat 2094: Statistical Computing in R; Tu 10:00am-12:00 noon, 2cr, 11 students; Primary Instructor.

Fall 2011.
Biostat 2083: Linear Models; T-Th 9:00am-10:25am, 3cr, 11 students; Primary Instructor.

Summer 2011.
Biostat 1200/1201: Introduction to Biostatistical Reasoning; M-F 10:00am-12:00 noon, 4cr, 21 students; Co-Instructor in SIBS Program.
Spring 2011.
Biostat 2094: Statistical Computing in R; Tu 10:00am-12:00 noon, 2cr, 17 students; Primary Instructor.
2010-2011.
Biostat 3010: Research And Dissertation Phd / FTDR; 5 students, variable credits; Primary Advisor.
Fall 2010.
Biostat 2083: Linear Models; T-Th 9:00am-10:25am, 3cr, 15 students; Primary Instructor.
Summer 2010.
Biostat 1200/1201: Introduction to Biostatistical Reasoning; M-F 10:00am-12:00 noon, 4cr, 20 students; Co-Instructor in SIBS Program.
2009-2010.
Biostat 3010: Research And Dissertation Phd / FTDR; 5 students, variable credits; Primary Advisor.
Fall 2009.
Biostat 2083: Linear Models; T-Th 9:00am-10:25am, 3cr, 16 students; Primary Instructor.
Summer 2009.
Biostat 2041: Introduction to Statistical Methods 1; T, Th 9:00am-10:25am, 3cr, 52 students; Primary Instructor.
Fall 2008.
Biostat 2021: Independent Study ;(Statistical Analysis Using R); 1 student, 1 cr; Primary Instructor.
Fall 2008.
Biostat 2083: Linear Models; Tuesdays, Thursdays 9:30-10:30a, 3 cr; Primary Instructor.
2008-2009.
Biostat 3010: Research And Dissertation Phd and FTDR; 4 students, variable credits; Primary Advisor.
2007-2008.
Biostat 3010: Research And Dissertation Phd; Wednesdays 11:30-12:30p, 3 cr; Primary Advisor.
2007-2008.
Biostat 3010: Research And Dissertation Phd; Wednesdays 12:30-1:30p, 3 cr; Primary Advisor.
Fall 2007.
Biostat 2083: Linear Models; T, Th 9:00am-10:25am, 3cr, 11 students; Primary Instructor.
Fall 2007.
Biostat 2021: Independent study ; (Adaptive Treatment Strategies); Primary Instructor.
Summer 2007.
Biostat 2041: Introduction to statistical methods 1; T, Th 9:00am-10:25am, 3cr, 65 students; Primary Instructor.
2006-2007.
Biostat 3010: Research And Dissertation Phd; Wednesdays 12:30-1:30p, 1 student, C113 cr; Primary Advisor.
2006-2007.
Biostat 2025: Biostatistics Seminar; Thursdays 3:30p - 5:00p, 1 cr; Primary Organizer.
Fall 2006.
Biostat 2083: Linear Models; T, Th, 1:30p-3:00p, 3 CR, 8 students; Primary Instructor.
2005-2006.
Biostat 3010: Research And Dissertation Phd; Wednesdays 11:30-1:30p, 1 student, 3 cr; Primary Advisor .
Fall 2005.
Biostat 2083: Linear Models; T, Th, 1:30p-3:00p, 3 CR, 16 students; Primary Instructor.
2004-2005.
Biostat 3010: Research And Dissertation Phd; Wednesdays 2:00-3:30p, 3 cr; Primary Advisor.
2004-2005.
Biostat 2025: Biostatistics Seminar; Thursdays 3:30p - 5:00p, 1 cr; Primary Organizer.

Fall 2004.
Biostat 2083: Linear Models; F 2:30-5:30, M 12:00-1:00, 3 CR, 16 students; Primary Instructor.

***North Carolina State University***

Summer 2002.
ST 372: Introduction to statistical inference and regression; 3 CR, about 35 students; Primary Instructor.

Summer 2003.
ST 372: Introduction to statistical inference and regression; 3 CR, about 35 students; Primary Instructor.

Fall 2000.
ST 311: Introduction to probability and ; statistics (Two sections); 3 CR, about 80 students; Primary Instructor.

Spring 2001.
ST 311: Introduction to probability and ; statistics (Two sections); 3 CR, about 80 students; Primary Instructor.

***Ball State University***

Fall 1999.
MATHS 221: Probability and Statistics; 3 CR, about 30 students; Primary Instructor.

Spring 2000.
MATHS 221: Probability and Statistics; 3 CR, about 30 students; Primary Instructor.

Spring 1999.
MATHS 181: Elementary probability and statistics; 3 CR, 18 students; Primary Instructor.

***Dhaka University***

1996-1998.
Real analysis and Advanced Calculus(Year-long courses); 2CR, about 65 students; Primary Instructor

1996-1998.
Test of hypothesis(Year-long courses);3 CR, 12 students; Primary Instructor.

1996-1998.
ST M101: Statistical inference(Year-long courses); 4 CR, 65 students; Primary Instructor.

**Other Teaching**

Spring 2020
Guest Lecture (2hrs)in Epidemiological Methods II : Missing Data

Summer 2020
Review office hours for PhD Applied Qualifying Exam (2 hours)

Spring 2019
Recitation for BIOST 2044 (3 hours per week)

Summer 2019
Review office hours for PhD Qualifying Exam (2 hours) PhD Qualifying Exam

Spring 2018
Review office hours for BIOST 2044 (2 hours per week)

Summer 2018
Review office hours for PhD Qualifying Exam (2 hours) PhD Qualifying Exam

Summer 2017
Review office hours for PhD Qualifying Exam (2 hours) PhD Qualifying Exam

Summer 2016
Review office hours for PhD Qualifying Exam (2 hours) PhD Qualifying Exam

Summer 2015
Review office hours for PhD Qualifying Exam (2 hours) PhD Qualifying Exam

Spring 2015
1-hrs/week class lectures/meetings with students for Advanced Martingale-Based Survival Analysis

Fall 2014
1-hrs/week class lectures/meetings with students for Advanced Martingale-Based Survival Analysis

Summer 2014
Review office hours for PhD Qualifying Exam (2 hours) PhD Qualifying Exam

Summer 2013
Review office hours for PhD Qualifying Exam (2 hours) PhD Qualifying Exam

Spring 2013
Substituted 1 lecture for BIOST 2042 Introduction to Statistical Methods 2

Summer 2012
Review office hours for PhD Qualifying Exam (2 hours) PhD Qualifying Exam

Spring 2012
Substituted 1 lecture for BIOST 2042 Introduction to Statistical Methods 2

Summer 2011
Review office hours for PhD Qualifying Exam (5 hours) PhD Qualifying Exam

Spring 2011
Substituted 2 lectures for BIOST 2042 Introduction to Statistical Methods 2

Summer 2011
2-hrs/week class lectures/meetings with students for proposed Asymptotic Theory course

Spring 2011
2-hrs/week class lectures/meetings with students for proposed Asymptotic Theory course

Spring 2011
Lead the adaptive treatment strategies reading group lectures (http://www.biostat.pitt.edu/ATSRG/meetings.htm) Adaptive Treatment Strategies Reading Group (ATSRG)

Fall 2011
Lead the adaptive treatment strategies reading group lectures (http://www.biostat.pitt.edu/ATSRG/meetings.htm) Adaptive Treatment Strategies Reading Group (ATSRG)

Spring 2010
Organized and participated in preparatory office hour sessions for students who would appear in the PhD qualifying examination.

Spring 2010
Organized 5 hours of student seminars in biostatistics, where at each hour, a senior student provided a tutorial on one of the topic they have expertise in. This semester's topics included Statistical Analysis and Graphics in R, and Latex.

February 2010
One hour invited lecture in the course statistical methods for clinical trials School of Medicine, University of Pittsburgh Adaptive Designs in Clinical Trials.

February 2009
One hour invited lecture in the course statistical methods for clinical trials School of Medicine, University of Pittsburgh Adaptive Designs in Clinical Trials.

February 2008
One hr invited lecture in the course statistical methods for clinical trials School of Medicine, University of Pittsburgh Adaptive Designs in Clinical Trials

**Service on Doctoral Committees**

Gabriel Conzuelo Rodriguez, PhD in Epidemiology (Expected).
Dissertation: TBD.

Amanda S. Hinerman, PhD in Epidemiology (Expected).
Dissertation: TBD

Junyao Wang, PhD in Statistics (Expected).
Dissertation: Adaptive Randomization in a Two-stage Sequential Multiple Assignment Randomized Trial

Xiaotian Gao, PhD in Biostatistics 2020.
Dissertation: Joint Model of Longitudinal and Survival Data, and Robust Nonparametric Regression.

Tanbin Rahaman, PhD in Biostatistics 2019.
Dissertation: Classification and Clustering for Rna-Seq Data with Variable Selection.

Stephen Liu, PhD in Epidemiology 2017.
Dissertation: Classifications, re-visits, and mortality for opioid-related hospitalizations in Pennsylvania and their associations with HCV and HIV discharges

Ling-Wan Chen, PhD in Statistics 2017.
Dissertation: Cumulative Incidence Regression for Dynamic Treatment Regimens and Quantile Association Model for Bivariate Survival Data

Zhiguang Huo, PhD in Biostatistics 2017.
Dissertation: Statistical Integrative Omics Methods for Disease Subtype Discovery

Yimeng Liu, PhD in Biostatistics 2017.
Dissertation: A Series of Two-Sample Tests for Quantile Residual Life

Song Zhang, PhD in Biostatistics 2017.
Dissertation: Diagnostic accuracy analysis for ordinal competing risk outcomes using ROC surface

Shannon Wooley, PhD in Biostatistics 2017.
Dissertation: Tests for Random Signs Censoring in Competing Risks

Andrew Topp, PhD in Biostatistics 2016.
Dissertation: Double-Robust Estimation for Two-Stage Dynamic Treatment Regimes

Geoffrey Johnson, PhD in Biostatistics 2016.
Dissertation: Quality-Adjusted Q-Learning and Conditional Structural Mean Models for Optimizing Dynamic Treatment Regimes

Yafei Wei, PhD in Statistics 2016.
Dissertation: Estimation, Model Selection, and Resilience of Power-Law Distributions

Xiaoxu Li, PhD in Biostatistics 2014.
Dissertation: Modeling the Variation in Events Intensity

Tao Xue, PhD in Environmental and Occupational Health 2015.
Dissertation: Spatiotemporal Modeling of Air Pollutants and Their Health Effects in the Pittsburgh Region

Shaowu Tang, PhD in Biostatistics 2014.
Dissertation: Investigations on Genomic Meta-Analysis: Imputation for Incomplete Data and Properties of Adaptively Weighted Fisher's Method

Candace Wu, PhD in Biostatistics 2014.
Dissertation: Inference on Conditional Quantile Residual Life for Censored Survival Data

Min Geng, PhD in Biostatistics 2014.
Dissertation : Marginal Structural Cox Proportional Hazards Model for Data with Measurement Errors

Yi Ren, PhD in Biostatistics 2014.
Dissertation : Proportional Subdistribution Hazards Regression with Interval-Censored Competing Risks Data

Siyu Li, PhD in Statistics 2013.
Dissertation : Simultaneous Population and Dose Selection in Clinical Trials and Cluster Validation

Idil Yavuz, PhD in Statistics 2013.
Dissertation : Non-Parametric Inference and Regression Analysis for Cumulative Incidence Function under Two-Stage Randomization

Ferdouse Begum, PhD in Biostatistics 2013.
Dissertation: GWAS Meta-Analysis

Nicholas J Christian, PhD in Biostatistics 2011.
Dissertation: Hierarchical Likelihood for Clustered Competing Risk Data

Yu Mi Kwon, PhD in Biostatistics 2010.
Dissertation: Kernel-Assisted Imputation Method With Incomplete Data Under Pseudo-Likelihood For Variance Estimate

Yuanyuan Wang, PhD in Biostatistics 2010.
Simulation Experiment Platform for Evaluating Clinical Trial Designs, with Applications to Phase 1 Dose-Finding Clinical Trials

Stephanie Shook, PhD in Biostatistics 2010.
Dissertation: Evaluating the Design and Analysis of Clinical Trials

Folefac Atem, PhD in Biostatistics 2010.
Dissertation: Rationale for Choosing Explicit Correlation Structure in a Multilevel Analysis with Bivariate Outcomes

Chen Gu, PhD in Statistics 2010.
Dissertation: Improved Sample Size Re-estimation In Adaptive Clinical Trials Without Unblinding

Yoko Tanaka, PhD in Biostatistics 2010.
Dissertation: Two-stage Dose Adaptive Designs for a Best Dose-Response Model and a Minimum Efficacious Dose in Drug Development

Fiona Callaghan, PhD in Biostatistics 2010.
Dissertation: Classification Trees for Survival Data with Competing Risks

Fang Zhu, PhD in Biostatistics 2010.
Dissertation: An Index of Local Sensitivity to Nonignorability and a Penalized Pseudolikelihood Method for Data with Nonignorable Nonresponse

Danielle Iuliano, PhD in Epidemiology 2009.
Dissertation: Host genetic variants, treatment outcomes and metabolic complications in hepatitis C virus genotype 1

Darmendra Ramacharan, PhD in Epidemiology 2009.
Dissertation: Aspects of the lipid profile in a cohort with chronic hepatitis C infection

Sarah Haile, PhD in Biostatistics 2008.
Dissertation: Inference on Competing Risks in Breast Cancer Data

Qing Xu, PhD in Biostatistics 2007.
Dissertation: Inference on Survival Data Under Non-proportional Hazards

**Service on Masters Committees**

Yunfei Xie, MS in Biostatistics 2019
Thesis: Assessing risk factors and predicting sepsis mortality using logistic and survival methods

Avantika Srivastava, MS in Biostatistics 2019
Thesis: Impact of the Treatment Assignment Model on Propensity Score-Based Methods

Qi Gao, MS in Biostatistics 2019
Thesis: Multinomial logistic regression and group-based trajectory modeling for longitudinal data of contraceptive methods and recognition of abusive behaviors among women seeking family planning clinical care

Corey Wicket, MPH in Epidemiology 2005
Thesis: Depression Symptoms in Patients with Untreated Hepatitis C

Murugan Raghavan, MPH in Clinical Research 2008

**Service on Departmental/School/Univ Committees**

2016-present, Member, University of Pittsburgh Conflict of Interest Committee (COIC)

2020 -Present. Member, Faculty Social Justice Action Committee on HR/hiring, GSPH

2019-2020. Chair, GSPH Faculty Appointment, Promotion, and Tenure Committee

2014-2019. Member, GSPH Faculty Appointment, Promotion, and Tenure Committee

2013-present. Chair, Doctoral Monitoring Committee

2013-present. Member, PhD comprehensive Examination Committee

2017 - 2019. Member, Search Committee for Biostatistics Faculty, Graduate School of Public Health

2018- 2019. Member, Masters Program Committee

2018-2019. Investigative Board to Examine Allegations of Research Misconduct, School of Medicine, University of Pittsburgh, Member

2011-2013. Chair, PhD comprehensive Examination Committee

2013 - 2014. Member, Search Committee for Biostatistics Faculty, Graduate School of Public Health

2012 - 2013. Chair, Search Committee for Biostatistics Faculty, Graduate School of Public Health

2010 - 2012. Member, Search Committee for Biostatistics Faculty, Graduate School of Public Health

2009 - 2011. Member, Search Committee for Public Health Dynamic Laboratory (PHDL) Faculty, Graduate School of Public Health

2005 - 2011. Member, Ph.D. Qualifying Examination Committee

2009 - 2011. Co-Chair, Doctoral Curriculum Committee

2008 - 2011. Member, Doctoral Monitoring Committee

2006 - 2011. Member, Masters Program Committee

2010 - 2011. Member, Doctoral Exam Evaluation Committee

2006 - 2008. GSPH Planning and Budget Policies Committee (PBPC)

**Membership in Professional Societies**

American Statistical Association
International Biometric Society (ENAR)
International Chineese Statistical Association
Calcutta Statistical Association
Bangladesh Statistical Association
International Indian Statistical Association

**Service to the Profession**

2020-Present. Member, Executive Committee, American Statistical Association(ASA) JEDI Initiative.

2020-Present. Chair, COPSS Award Committee.

2020-Present. Member, Anti-Racism Task Force , ASA.

2019-2020. member, COPSS Award Committee.

2014-2018. Vice-Chair, Committee on International Relations in Statistics, American Statistical Association(ASA).

2017. Member, International Advisory Committee International Conference on Advances in Interdisciplinary Statistics and Combinatorics, UNC Greensboro, October 2017

2016. Member, International Advisory Committee International Conference on Advances in Interdisciplinary Statistics and Combinatorics, UNC Greensboro, October 2016

2016. Member, Organizing Committee, International Conference on Analysis of Repeated Measures Data, Dhaka, Bangladesh, November 2016.

2016. Member, Program Committee, International Indian Statistical Association Conference, August 2016.

2015. Member, Scientific Committee, and Organizing Committee, Second International Conference on Probability and Statistics, University of Dhaka, Bangladesh, December 2015.

2014-2016. Member, Regional Advisory Board (RAB), International Biometric Society Eastern North American Region (ENAR)

2012-2014. Member, Committee on International Relations in Statistics, ASA.

2014. Member, Scientific Committee, International Conference on Applied Statistics, Dhaka, Bangladesh.

2014. Member, International Advisory Committee International Conference on Advances in Interdisciplinary Statistics and Combinatorics, UNC Greensboro

2014. Member, Program Committee, International Indian Statistical Association Conference, July 2014.

2013-2014. Past-President, Pittsburgh Chapter of the ASA.

2012-2013. President, Pittsburgh Chapter of the ASA.

2011-2012. President-Elect, Pittsburgh Chapter of the ASA.

2013. Reviewer, Patient-Centered Outcome Research Institute (PCORI)
2011-2014. ENAR representative to American Association of Advancement in Science section N (Medical Statistics)
2011-2013. Member, ENAR Student Travel Award Committee, International Biometric Society

2012. Reviewer, PCORI
2011-2012. Member, ENAR Program Committee for the 2012 Spring Meetings in Washington, D.C.
2011. Organizer and Chair, International Biometric Society, ENAR meeting, Miami, Florida
2010-2011. Member, International Committee, The First International Conference on Theory and Application of Statistics, Dhaka University Statistics Department Alumni Association (DUSDAA), Dhaka, Bangladesh.
2010. Organizer and Chair, International Biometric Society, ENAR meeting, New Orleans, Louisiana
2009. Reviewer, Patient-Centered Outcome Research Institute (PCORI)
2009. Organizer and Chair, International Biometric Society, ENAR meeting, San Antonio, Texas
2009. Reviewer, NIH Study sections for challenge grants.
2008. Organizer and Chair, International Biometric Society, ENAR meeting, Virginia
2006. Session Chair, Joint Statistical Meetings, Seattle, Washington
2006. Session Chair, International Biometric Society, ENAR meeting, Tampa, Florida
2004. Session Chair, International Biometric Society, ENAR meeting, Pittsburgh, PA

**Editorial Service**

2019 - Present. Associate Editor, Biometrics.
2013 - Present. Associate Editor, Biostatistics.
2013 - Present. Associate Editor, Journal of Statistical Theory and Practice.
2020 - 2021. Guest Editor, Journal of Statistical Research.
2014 - 2020. Editor, Journal of Statistical research.
2014 - 2015. Guest Editor, Journal of Statistical Theory and Practice.
2011-2012. Guest Editor, Journal of Statistical Research Special Volume on Biostatistics.

Reviewer: Biostatistics, Journal of Statistical Computation and Simulation, Statistics in Medicine, Journal of the American Statistical Association, Lifetime Data Analysis, Journal of Experimental & Clinical Cancer Research, Journal of Statistical research, International Journal of Statistical Sciences, Journal of Hepatology,American Journal of Epidemiology, Clinical Trials, Biometrical Journal, Journal of Probability and Statistical Science, Biometrics, Applied Mathematics Letters, and Cleft Palate-Craniofacial Journal

**Research Grants**

Have been serving as PI, Co-I, directing statistical activities, on National Institute of Health (NIDDK, NHLBI, NIMH) and Health Resources and Services Administration-supported multi-center observational studies and clinical trials through collaborations with Epidemiology Data Center, Western Psychiatric Institute, and Department of Critical Care Medicine on projects related to Hepatitis B and C, Bariatric Surgery, Weight Gain Prevention, Depression in Older Adults, Sequencing Therapy for Depression and Pain, and Donor Management.

ACTIVE

PCORI Annual Direct Costs - 250*K* Principal Investigator
TBD Wahed (PI) 11/01/22 - 10/31/25 3.6 cal. months
*Pragmatic Comparative Effectiveness using Sequential Multiple Assignment Randomized Trials*

NIH/NHLBI Annual Direct Costs - $180*K* year 1 and 492*K* – 500*K* years 2 – 5 Co-Investigator
1U24DK128125-01 King/Belle (MPI) 04/01/21 - 03/31/26 1.2 (.36 year 1) cal. months
*Physiology of the Weight-Reduced State Data Coordinating Center*

Merck Inc. Annual Direct Costs - $111, 503 Principal Investigator
NA Wahed (PI) 01/01/21 12/31/22 0.6 cal. months
*Mitigating Bias in Clinical Utility Profile Estimation*
Develop statistical methods to mitigate bias in clinical utility profile estimation for biomarker cut-off selection at interim analyses with incomplete follow-up and examine performance under different assumptions for the competing risks model, considering alternate methods and conducting comparative evaluations.

NIH Annual Direct Costs - $578, 139 Institutional PI/ Co-Investigator
1R01CA236860 Creswell (PI) 12/01/19 - 11/30/24 1.2 cal. months
*A value affirmation intervention for physical symptoms and medication adherence in breast cancer patients taking aromatase inhibitors*
The proposed RCT has the potential to identify a powerful, cost-effective, and easy-to-implement value affirmation intervention for reducing symptoms, stress, and medication non-adherence in breast cancer patients taking AIs.

NIH/NIAAA Annual Direct Costs - $615, 104 Co-Investigator
R01AA028436 Arteel (PI) 04/01/20-03/31/25 1.44 cal. months
*Biomarkers of Alcoholic Hepatitis*
Alcoholic hepatitis (AH) is a severe acute form of alcoholic liver disease with a very high mortality rate. Despite years of research, the standard-of-care and mortality rate has not changed dramatically in over 50 years. Our goal is to develop new computational and experimental methods and discover new biomarkers for AH outcome that can efficiently identify at-risk individuals. A second goal of the project is to identify molecular mechanisms of AH, which could be targeted therapeutically.

NIH/"Operation Warp Speed" Co-Investigator
Wisniewski (PI) 06/01/20 - 05/31/21 2.4 cal. months
*ACTIV 4 Data Coordinating Center*
ACTIV 4 Data Coordinating Center will coordinate the data collection and analysis for three anti-coagulation clinical trials investigating therapeutic and preventive treatments for anti-coagulation in COVID19 patients during hospital, post-discharge, and out-patient recovery.

NIH Annual Direct Costs - $2, 723, 281 Co-Investigator
U01DK082864 Belle (PI) 09/30/08 - 05/31/22 4.8 cal. months
*Hepatitis B Clinical Research Network - Data Coordinating Center*
This network will establish a database of all patients with hepatitis B followed at one of 10 clinical centers. The Data Coordinating Center will support all aspects of study design and conduct all data analyses of the database and further clinical trials.

NIH $157, 807 Co-Investigator
PD302920-SC104230 King (PI) 04/01/13 - 08/31/21 .6 cal. months
*HBV/ HIV Co-Infection Research Network (Subcontract from Virginia Commonwealth University)*
Despite effective ART that can suppress both HIV and HBV, HBV-related liver disease remains a significant co-morbidity in this population. Little is known about the histologic spectrum of liver disease, the significance of complete vs. incomplete HBV suppression, the utility of novel virologic and serum markers of disease severity, and the long-term renal and bone effects of TDF-based therapy. This proposal will address these important questions and impact the science and health of those coinfected

with HBV-HIV.

SELECTED COMPLETED

NIH/NHLBI Annual Direct Costs - $749,821 Co-Investigator
U01 DK066557-06 Belle (PI) 08/01/09 - 06/30/17 2.4 cal. months
*Continuation of the Longitudinal Assessment of Bariatric Surgery (LABS)-DCC*
LABS was conceived to address important issues in bariatric surgery and metabolism in the obese and morbidly obese. LABS explores relationships of patient characteristics, clinical conditions, serologic and genetic markers, and clinical, psychosocial and health economic outcomes. During this proposed continuation of LABS we will build on the rigorous research infrastructure across 9 clinical sites at the 6 Clinical Centers LABS investigators will address scientifically important research questions.

NIH/NHLBI Annual Direct Costs - $247, 874 Co-Investigator
T-15 Stone (PI) 08/1/2012 - 07/31/2015 .6 cal. months
*Biostatistics with a Focus on Cardiovascular Health and Minority Populations*
The purpose of this project is to develop a 6-week residential summer program focused on collaborative research in cardiovascular health, to interest quantitatively oriented undergraduates in graduate training in biostatistics.

NIH/NIMH Annual Direct Costs - $391,405Co-Investigator
Reynolds (PI) 2011 - 2016 5% effort
Advanced Center for Intervention and Services Research in Late-Life Depression Prevention

NIDDK/NCCAM/Rotapharm-Maudas Annual Direct Costs - $373, 321 Co-Investigator
01 AT003566-03 Belle (PI) 08/15/06 - 12/31/2014 2.4 cal. months
*Phase I/II Trials of Silymarin for Chronic Liver Diseases - Data Coordinating Center*
This randomized, multicenter, double-blind, placebo-controlled Phase I investigation will evaluate the safety and pharmacokinetics of silymarin (Legalon 140 mg capsules of milk thistle extract containing 77.5% silymarin) in subjects with HCV who have failed to respond to previous interferon-based therapies, and in subjects with non-alcoholic fatty liver disease (NAFLD).

HRSA Annual Direct Costs - $230,000 Co-Investigator
1 R38OT10587-01 Kellum (PI) 09/01/08 - 08/31/11 .6 cal. months
*Monitoring Organ Donors to Improve Transplantation Results*
Solid organ transplantation is the only definitive treatment option for patients with end-stage organ failure. With the goal to improve organ quality and yield, we will conduct an RCT to test our hypothesis and aim to answer, "Can early protocol-guided donor resuscitation after brain death improve organ yield for transplantation?"

NIH/NIDDK Annual Direct Costs - $940,981 Co-Investigator
1U01 DK082864-01 Belle (PI) 09/30/08 - 05/31/15 2.4 cal. months
*Hepatitis B Clinical Research Network - Data Coordinating Center*
This network will establish a database of all patients with hepatitis B followed at one of 10 clinical centers. The Data Coordinating Center will support all aspects of study design and conduct all data analyses of the database and further clinical trials.

NIH/NHLBI Annual Direct Costs - $228,571 Co-Investigator
1 U01 HL096770-01 Jakicic (PI) 7/1/09 - 6/30/14 1.2 cal. months
*Targeted Approaches to Weight Control for Young Adults*
The goal of this project is to test whether a 6 month behavioral weight loss intervention followed by an 18 month technologically-enhanced maintenance phase results in improved weight loss compared to a standard maintenance phase over 24 months.

NIH-NHLBI Annual Direct Costs - $247,874 Co-Investigator
T-15-HL097777-01 Stone (PI) 08/1/09 - 07/31/12 .6 cal. months
*Biostatistics with a Focus on Cardiovascular Health and Minority Populations*
The purpose of this project is to develop a 6-week residential summer program focused on collaborative research in cardiovascular health, to interest quantitatively oriented undergraduates in graduate training in biostatistics.

Clinical And Translational Science Institute, University of Pittsburgh. 2007-2008 ~ $15,000 Principal Investigator.
*Comparing Adaptive Treatment Strategies In Multi-Stage Randomization Designs*,

Central Research Development Fund, University of Pittsburgh. 2005-2007 ~ $15,000 Principal Investigator
*Efficient Estimation and Tests for Survival Distributions in Two-Stage Randomization Designs in Clinical Trials*