

# Abdus S. Wahed, PhD

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## University Address

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## Education

- December 2003 Ph.D., Statistics, North Carolina State University, Raleigh, NC  
Advisor: *Anastasios A. Tsiatis*  
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

## Employment

- March 2015 – Present Professor of Biostatistics (Tenured),  
Graduate School of Public Health (GSPH)  
University of Pittsburgh, Pittsburgh, PA
- September 2013 – Present Director of PhD Graduate Program, Department of Biostatistics, GSPH
- September 2009 – February 2015 Associate Professor (Tenured), Department of Biostatistics, GSPH
- September 2003 – present Senior Statistician, Department of Epidemiology, 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
- 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

## Honors and Awards

- 2014 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 Bayesian Pharmacokinetics and Pharmacodynamics Modeling Workshop Travel Award  
Statistical and Applied Mathematical Sciences Institute (SAMSI), RTP, NC
- 2007 Dynamic Treatment Regimes Workshop Travel Award, SAMSI

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

- 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 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, Dhaka University
- 1990-1992 Dr. Qazi Motahar Husain Award, Department of Statistics, Dhaka University

**Membership in Professional Societies**

- American Association of Advancement of Science
- American Statistical Association
- International Biometric Society (ENAR)
- International Chinese Statistical Association
- Calcutta Statistical Association
- Bangladesh Statistical Association

**ASA Service**

- 2014-2015. Vice-Chair, Committee on International Relations in Statistics, American Statistical Association(ASA).
- 2012-2015. Member, Committee on International Relations in Statistics, ASA.
- 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.
- 2006. Session Chair, Joint Statistical Meetings, Seattle, Washington
- Reviewer for ASA journals JASA and Statistics in Biopharmaceutical Research

**Other Professional Services**

- 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.
- 2014-present. Member, Regional Advisory Board (RAB), International Biometric Society Eastern North American Region (ENAR)
- 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, International Biometric Society, ENAR meeting, Tampa, Florida
2004. Session Chair, International Biometric Society, ENAR meeting, pittsburgh, PA

### Editorial Service

- 2014 - 2015. Guest Editor, Journal of Statistical Theory and Practice.
- 2013 - Present. Associate Editor, Biostatistics.
- 2013 - Present. Associate Editor, Journal of Statistical Theory and Practice.
- 2011-2012. Guest Editor, Journal of Statistical Research Special Volume on Biostatistics.
- 2009 - Present. Member, Editorial Board, Open Access Statistics and Probability Journal, 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,
- Reviewer: 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

### Publications

Methodology [asterik(\*) indicates student advisee]

74. \*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.
73. Huang, X, Ning, J, **Wahed, AS** (2014). Optimization of individualized dynamic treatment regimes for recurrent diseases. Statistics in medicine 33.14 (2014): 2363-2378.
72. \*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.
71. \*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
70. \*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
69. \*Kidwell, KM and **Wahed, AS** (2013). Weighted Log-rank Statistic to Compare Shared-Path Adaptive Treatment Strategies. Biostatistics 2013 Apr;14(2):299-312.
68. **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. 6783
67. \*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
66. \*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 812830

65. \*Tang, X, and **Wahed, AS** (2011). Comparison of Treatment Regimes with Adjustment for Auxiliary Variables. *Journal of Applied Statistics*, 2011; 38: 2925-2938.
64. **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.
63. \*Miyahara, S, and **Wahed, AS** (2010). Weighted Kaplan-Meier Estimators for Two-Stage Treatment Regimes. *Statistics in Medicine*, 2010; 29: 2581-2591.
62. **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.
61. \*Feng, W and **Wahed, AS** (2009). Sample Size for Two-Stage Studies with Maintenance Therapy. *Statistics in Medicine*, 2009; 28: 2028-2041
60. **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
59. **Wahed, AS** (2009). Estimation of survival quantiles in two-stage randomization designs, *Journal of Statistical Planning and Inference* 139 (2009) 2064-2075.
58. \*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.
57. 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.
56. **Wahed, AS** (2007). The family of curvi-triangular distributions. *International Journal of Statistical Sciences*, Vol 6, pp 7-18.
55. **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.
54. **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.
53. **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.
52. \*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.
51. **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.
50. **Wahed, AS** and Ali, MM (2001). The Skew-Logistic Distribution. *Journal of Statistical Research*, Vol. 35, No,2, pp. 71-80.
49. **Wahed, AS** and Uddin, B (1998). Bayes Estimation Under Asymmetric Loss. *Dhaka University Journal of Science*, Vol. 46.

#### Applications

48. Gibbs BB, King WC, Davis KK, Rickman AD, Rogers RJ, **Wahed AS**, Belle SH, Jakicic, JM. Objective vs. Self-report Sedentary Behavior in Overweight and Obese Young Adults (2015). *Journal of Physical Activity and Health*, In press.
47. 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. In Press: *Journal of Physical Activity and Health*.
46. 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. Accepted, *Intensive Care Medicine*.

45. Smith, MD, Patterson, E, and **Wahed, AS**, et al.(2014). Technical Factors Associated with Anastomotic Leak after RYGB. Accepted, Surgery for Obesity and Related Diseases .
44. Koenig, AM, Butters, MA, Begley, A, Ogbagaber, S,**Wahed, AS**, and Reynolds, CF (2014). Response to Antidepressant Medications in Late-Life Depression Across the Spectrum of Cognitive Functioning. *Journal of Clinical Psychiatry*. 2014 Feb;75(2):e100-7. doi: 10.4088/JCP.13m08442
43. Al-Khafaji A, Murugan R, **Wahed AS**, et al (2013). Monitoring Organ Donors to Improve Transplantation Results (MONIToR) trial methodology. *Crit Care Resusc*. 2013 Sep;15(3):234-40
42. Mason, NS, Lopresti, BJ, Ruszkiewicz,J, Dong,X, Joyce,S, Leef,G, Sen, M,**Wahed, AS**, Mathis, CA, Grandis,JR, Thomas, SM(2012). Utility of 3'-[18F]fluoro-3'-deoxythymidine as a PET tracer to monitor response to gene therapy in a xenograft model of head and neck carcinoma. *Am J Nucl Med Mol Imaging*. 2013; 3(1): 1631
41. Smith, MD, Patterson, E, **Wahed, AS**, et al. (2012). Can Technical Factors Explain the Volume-Outcome Relationship in Gastric Bypass Surgery? *Surg Obes Relat Dis*. 2012 Oct 30. pii: S1550-7289(12)00391-7. doi: 10.1016/j.soard.2012.09.013.
40. Fried, MW, Navaro, VJ, Afdhal, N, Belle, SH, **Wahed, AS**, et. al., Effect of Silymarin (Milk Thistle) on Liver Disease in Patients With Chronic Hepatitis C Unsuccessfully Treated With Interferon Therapy A Randomized Controlled Trial. *JAMA*. 2012;308(3):274-282
39. Sarkar, S, Jiang, Z, Evon, DM, **Wahed, AS**, and Hoofnagle, JH. (2012) Fatigue Before, During and After Antiviral Therapy of Chronic Hepatitis C: Results from the Virahep-C Study, *J Hepatol*. 2012 Nov;57(5):946-52. doi: 10.1016/j.jhep.2012.06.030
38. Greenstein, AJ, **Wahed, AS**, Adeniji, A, et al. (2012). Prevalence of Adverse Intra-operative Events during Obesity Surgery and their Sequelae. *J Am Coll Surg*. 2012 Aug; 215(2):271-7.e3. doi: 10.1016/j.jamcollsurg.2012.03.008
37. Reddy KR, Belle, SH, Fried, MW, Afdhal, N, Navarro, VJ, Hawke, RL,**Wahed, AS**, Doo, E, Meyers, CM. for the SyNCH Study Group (2011). Rationale, Challenges and Participants in a Phase II Trial of a Botanical Product for Chronic Hepatitis C. *Clinical Trials*, Vol 9 (1), 102-112
36. Schrieber, SJ, Hawke, RL, Wen, Z, Smith,PC, Reddy, KR, **Wahed AS**, Belle, SH, Afdhal, NH, Navarro, VJ, Meyers, CM, Doo, E, Fried, MW for The SyNCH Trial Group (2011). Differences in the Disposition of Silymarin Between Patients with Non-Alcoholic Fatty Liver Disease and Chronic Hepatitis C. *Drug Metab. Disp*. 39 (12) pp 2182-2190.
35. Murugan, R, Sileanu, F, **Wahed, AS**, et al. (2011). Sex Difference in Deceased Donor Organ Transplantation. *Transplantation*, 2011 Dec 15;92(11):1278-84
34. Smith, MD, Patterson, E, and **Wahed, AS** et al. (2011). 30-day Mortality after Bariatric Surgery: Independently Adjudicated Causes of Death in the Longitudinal Assessment of Bariatric Surgery. *Obesity Surgery*; 21 (11), pp 1687-1692
33. Ramcharran D, **Wahed, AS**, Conjeevaram HS, Evans RW, Wang T, Belle SH, Yee LJ (2011). Serum lipids and their associations with viral levels and liver disease severity in a treatment-naive chronic hepatitis C type 1-infected cohort. *J Viral Hepat*. 2011 Apr;18(4):e144-e152
32. Ramcharran, D, **Wahed, AS**, Conjeevaram, HS et al. (2010). Associations between serum lipids and hepatitis C antiviral treatment efficacy. *Hepatology*. 2010 Sep;52(3):854-63.
31. Conjeevaram, HS, **Wahed, AS**, Afdhal, N, et al. (2010). Changes in insulin sensitivity and body weight during and after peginterferon and ribavirin therapy of chronic hepatitis C. *Gastroenterology*. 2011 Feb;140(2):469-77.
30. Donlin MJ, Cannon NA, Aurora R, Li J, **Wahed, AS**, et al. (2010) Contribution of Genome-Wide HCV Genetic Differences to Outcome of Interferon-Based Therapy in Caucasian American and African American Patients. *PLoS ONE* 5(2): e9032.
29. Smith, M.D., Patterson, E., **Wahed, AS**, Belle, S.H., Bessler, M., Courcoulas, A.P., Flum, D., Mitchell, J.E., Pomp, A., Pories, W.J., Wolfe, B (2010). Response to Livingston, EH Letter to the Editor regarding: There is an Inverse Relationship between Surgeon Volume and Adverse Outcomes after RYGB in the Longitudinal Assessment of Bariatric Surgery (LABS) Study, *Surg Obes Relat Dis*. 2010 Jul-Aug;6(4):463.

28. Inabnet WB, Belle, SH, Bessler, m, Courcoulas, A, Dellinger, P, Garcia, L, Mitchell, J, Oelschlager, B, O'Rourke, R, Pender, J, Pomp, A, Pories, W, Ramanathan, R, **Wahed, AS**, Wolfe, B (2010). A comparison of 30 day outcomes after non-lap Band primary and revisional bariatric surgical procedures from the Longitudinal Assessment of Bariatric Surgery (LABS) study. *Surg Obes Relat Dis.* 2010 Jan-Feb;6(1):22-30.
27. Longitudinal Assessment of Bariatric Surgery (LABS) Consortium (2009). Reply to the letters from Vetter, ML, et al. (2009) and Bhattacharyya, S, et al. (2009) [In response to Peri-operative Safety in the Longitudinal Assessment of Bariatric Surgery. *New England Journal of Medicine.* Volume 361:445-454 July 30, 2009 Number 5]. *N Engl J Med.* 2009 Nov 5;361(19): 1911. (Corporate authorship)
26. Longitudinal Assessment of Bariatric Surgery (LABS) Consortium. (2009). Peri-operative Safety in the Longitudinal Assessment of Bariatric Surgery. *New England Journal of Medicine.* Volume 361:445-454 July 30, 2009 Number 5. (Corporate authorship)
25. Hoofnagle, JH, **Wahed, AS**, and Belle, SH (2009). Reply to Antonucci et al. (in response to Hoofnagle, JH, **Wahed, AS**, et al. (2009) below). *Journal of Infectious Diseases* 2009; 200:1485.
24. Smith, MD, Patterson, E, Belle, SH, Bessler, M, Courcoulas, AP, Flum, D, Halpin, V, Mitchell, JE, Pomp, A, Pories, W, **Wahed, AS** Wolfe, B(2009). The Relationship between Surgeon Volume and Adverse Outcomes after RYGB in the Longitudinal Assessment of Bariatric Surgery (LABS) Study. *Surg Obes Relat Dis.* 2010 Mar 4;6(2):118-25.
23. Hawke, R, **Wahed, AS**, et al. (2009). Silymarin Ascending Multiple Oral Dosing Phase I Study in Non-Cirrhotic Patients with Chronic Hepatitis C. *The Journal of Clinical Pharmacology* 50 (4), 434-449
22. Dove, LM, Rosen, RC, Ramacharran, D, **Wahed, AS** et al. (2009). Decline in Male Sexual Desire, Function, and Satisfaction During and After Antiviral Therapy for Chronic Hepatitis C. *Gastroenterology*, 137 (3); 873-884.
21. Iuliano, D, Feingold, E, **Wahed, AS** et al. (2009). Host Genetics, Steatosis and Insulin Resistance among African Americans and Caucasian Americans with Hepatitis C Virus Genotype-1 Infection. *Intervirology* 2009;52:49-56
20. Lopez, OL, Becker, JT, **Wahed, AS**, Saxton, J, Sweet, RA, Wolk, D, Klunk, W, and DeKosky, ST (2009). Concomitant use of memantine and cholinesterase inhibition in the treatment of Alzheimer's disease. *J Neurol Neurosurg Psychiatry.* 2009 Mar 29.
19. Murugan, R, Venkataraman, R, **Wahed, AS** et al. (2009). Preload Responsiveness is associated with Increased IL- 6 and Lower Organ Yield from Cadaveric Donors. *Critical care medicine* 37(8):2387-93, 2009
18. 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.
17. Ling, B, Schoen, RE, Trauth, JM, **Wahed, AS**, et al. (2009). Physicians Encouraging Colorectal Screening (PECS): A randomized controlled trial of enhanced office and patient management on compliance with colorectal cancer screening, *Arch Intern Med.* 2009;169(1):47-55
16. Hoofnagle, JH, **Wahed, AS**, Brown, RS, Howell, CD, Belle, SH for the Virahep-C Study Group (2009). Early Changes in Hepatitis C Viral Levels in Response to Peginterferon and Ribavirin in Patients with Chronic Hepatitis C, Genotype 1 Infection, *The Journal of Infectious Diseases* 2009; 199:111220.
15. 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; 36:18101816.
14. Golden-Mason, L, Klarquist, J, **Wahed, AS**, and Rosen, HR for the Virahep-C Study Group (2008). PD-1 Expression is Increased on Immunocytes in Chronic HCV and Predicts Failure of Response to Antiviral Therapy: Race-Dependent Differences. *J. Immunol.* 180: 3637-3641.

13. 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;6:575583.
12. Donlin, MJ, Cannon, NA, Yao,E, Li, J, **Wahed, AS**, Taylor, MW, Belle, S, Di Bisceglie, AM, Aurora, R, and Tavis, JE for the Virahep-C Study Group (2007). Pretreatment Sequence Diversity Differences in the Full-Length Hepatitis C Virus Open Reading Frame Correlate with Early Response to Therapy. *J. Virol.* 2007 81: 8211-8224.
11. Brodsky LI, **Wahed AS**, Li J, Tavis JE, Tsukahara T, et al (2007) A Novel Unsupervised Method to Identify Genes Important in the Anti-viral Response: Application to Interferon/Ribavirin in Hepatitis C Patients. *PLoS ONE* 1(1): e584. doi:10.1371/journal.pone.0000584
10. Smith, SR, **Wahed, AS**, Kelley, SS, Conjeevaram, HS, Robuck, PR, Fried, MR for the Virahep-C Study Group (2007). Assessing the Validity of Self-Reported Medication Adherence in HCV Treatment. *Ann Pharmacother.*2007; 41: 1116-1123.
9. 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.
8. Conjeevaram HS, Kleiner DE, Everhart JE, Hoofnagle JH, Zacks S, Afdhal NH, **Wahed AS** for the Virahep-C Study Group (2007). Race, Insulin Resistance and Hepatic Steatosis in chronic hepatitis C. *Hepatology*. 2007 Jan;45(1):80-7

#### Other Publications

7. **Wahed, AS** (2010). Unbiased Estimator. *Encyclopedia of Research Design*. Edited by Neil J. Salkind, Sage Publications, Newbury Park, CA.
6. **Wahed, AS** (2010). Adaptive Designs in Clinical Trials. *Encyclopedia of Research Design*. Edited by Neil J. Salkind, Sage Publications, Newbury Park, CA.
5. **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.
4. **Wahed, AS** and Tang, X. (2010). Analysis of Variance. *Encyclopedia of Research Design*. Edited by Neil J. Salkind, Sage Publications, Newbury Park, CA.
3. **Wahed, AS** and Hsu, J. (2010). Cause-and-Effect. *Encyclopedia of Research Design*. Edited by Neil J. Salkind, Sage Publications, Newbury Park, CA.
2. **Wahed, AS.** (2006) "Censored Data". Entry in *Encyclopedia of Measurement and Statistics*. Sage Publications, , Newbury Park, CA.
1. **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

59. January, 2015. Nonparametric and Parametric Inferences for Dynamic Treatment regimes. *STAT Quest 2015*, Department of Statistics, University of Calcutta, Calcutta, India.
58. 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.
57. December, 2014. Statistical Analysis of SMART Studies via Artificial Randomization. International Conference on Applied Statistics, Dhaka, Bangladesh.
56. November, 2014. Baseline Covariate Adjustment in SMART Studies via Artificial Randomization. *IMPACT Conference*, Cary, North Carolina.

55. October, 2014. Hypothesis Testing in Sequentially Randomized Designs via Artificial Randomization. Department of Biostatistics, Columbia University, Newyork, NY.
54. October, 2014. Evaluation of Dynamic Treatment Regimes from SMART via Artificial Randomization. Department of Epidemiology and Biostatistics, Case Western Reserve University, Cleveland, Ohio.
53. October, 2014. SMART estimators for SMART Studies. International Conference on Advances in Interdisciplinary Statistics and Combinatorics (AISC) - 2014, Greensboro, NC.
52. September, 2014. Likelihood-Based and Nonparametric Inference for Dynamic Treatment Regimes in Leukemia. Department of Biostatistics, University of Pittsburgh.
51. 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.
49. June 2013. Joint Modeling of Multivariate Ordinal Medication Adherence Data. ICSA-ISCB joint conference in Bethesda, Maryland.
48. 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.
47. 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 Societys Journal Club Meeting on Survival Analysis.
46. March 2013. Covariate-Adjusted Comparison of Dynamic Treatment Regimes in Sequentially Randomized Designs. ENAR Spring Meetings, Orlando, Florida.
45. January 2013. Cumulative Adjusted Hazard Ratio Estimation for Dynamic Treatment Regimes. Department of Statistics, University of Dhaka.
44. January 2013. A Joint Modeling Approach for Multiple Ordinal Processes via Generalized Estimating Equations. Institute of Statistical Research and Training, University of Dhaka.
43. December 2012. Modeling Adherence to Multiple Medications: A Joint Modeling Approach via Generalized Estimating Equations. IMBIC conference, Calcutta.
42. December 2012. Statistical methods for comparing dynamic treatment regimes through sequentially randomized trials. 8th Triennial Statistics and Probability Symposium, Calcutta.
41. November 2012. Covariate-Adjusted Comparison of Dynamic Treatment Regimes in Sequentially Randomized Clinical Trials. Department of Biostatistics, University of Minnesota.
40. June 2012. Early Viral Kinetics in Hepatitis C. Summer Institute in Biostatistics, University of Pittsburgh.
39. June 2012. Study Designs. 29th Annual Meeting of the American Society of Metabolic and Bariatric Surgery, San Diego, California.
38. April 2012. Testing multiple adaptive treatment strategies in sequentially randomized clinical trials. Department of Biostatistics, University of Texas MD Anderson Cancer Center.
37. April 2012. Up-front vs. Sequential Randomization Designs for Comparing Adaptive Treatment Strategies. International Biometric Society (ENAR) spring meetings, 2012, Washington, DC.
36. June, 2011. Results from Virahep-C study, SIBS Seminar, Department of Biostatistics, University of Pittsburgh.
35. June, 2011. Personalized Medicine and Dynamic Treatment Regimes, Central Indiana Chapter of the American Statistical Association.
34. June, 2011. Risk Adjustment in Bariatric Surgery, 28th Annual Meeting of the American Society of Metabolic and Bariatric Surgery, Orlando, Florida.
33. 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.



32. 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.
31. 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.
30. November, 2010. Introduction to Survival Analysis (for non-statisticians) UPMC Mercy Graduate Medical Education Program, UPMC Mercy, Pittsburgh
29. May, 2010. Statistical inference for treatment strategies from two-stage randomization designs when second randomization is delayed 2010 ICSA Applied Statistics Symposium, Indianapolis, IN
28. February, 2010. Adaptive Designs in Clinical Trials. School of Medicine, University of Pittsburgh
27. December, 2009. Assessing the effect of treatment regimes on longitudinal outcome data. Department of Applied Statistics, University of Dhaka, Bangladesh
26. 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
25. November, 2009. Statistical methods for comparing dynamic treatment regimes with time-to-event endpoints. Department of Statistics, University of Pittsburgh
24. November, 2009. Statistical methods for comparing dynamic treatment regimes with time-to-event endpoints. Center for Statistical Sciences, Brown University, RI
23. August, 2009. Dynamic Treatment regimes in Leukemia Treatment. Joint Statistical Meetings 2009, American Statistical Association.
22. February, 2009. Adaptive Designs in Clinical Trials. School of Medicine, University of Pittsburgh.
21. September, 2008. Comparing adaptive treatment strategies following sequential multiple assignment randomization trials, Clinical and Translational Sciences Research Institute, CHRC, RAND-Pittsburgh Institute, VA-CHERP.
20. July, 2008. Inference on dynamic treatment regimes following sequential multiple assignment randomization trials, Center for Statistics at Queen Mary, University of London.
19. February, 2008. Adaptive treatment strategies one step forward towards individualized treatment rules. Deans Junior Faculty Seminar Series, Graduate School of Public Health, Pittsburgh.
18. February, 2008. Adaptive Designs in Clinical Trials. School of Medicine, University of Pittsburgh.
17. 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.
16. 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.
15. May 2007. Weibull-based approaches to survival analysis with applications to breast cancer data. Department of Mathematical Sciences, Ball State University, Muncie, Indiana.
14. February 2007. Comparing Adaptive Treatment Strategies: Challenges and Solutions. Center for Health Equity, Research and Promotions (CHERP), VA Health Care System, Pittsburgh.
13. December 2006. Survival Analysis for Comparing Adaptive Treatment Strategies. Department of Applied Statistics, University of Dhaka, Dhaka, Bangladesh.
12. April 2006. Survival Analysis in Two-stage Randomization Designs in Leukemia Trials. Department of Mathematics and Statistics, University of Windsor, Windsor, Ontario.
11. February 2006. Survival Analysis in Two-stage Randomization Designs in Oncology Trials. Invited presentation, Department of Biostatistics, College of Public Health, University of Kentucky.
10. 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.

9. 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.
8. 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.
7. 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.
6. 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.
5. 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.
4. 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.
3. 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.
2. January 2003. Survival Analysis in Two-Stage Randomization Designs in Clinical Trials. Department of Mathematics and Statistics, Georgia State University.
1. 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

48. (with Semhar Ogbagaber) Regression Analysis of Sequentially Randomized Trials Through Artificial Randomization. Joint Statistical Meetings, August 2014, Boston, MA.
47. (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.
46. (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
45. (with Emmanuel Sampene) A Simple Locally Efficient Estimator for Relative Risk in Case-cohort Studies, ENAR Spring Meeting, March 2014. Baltimore, Washington, DC.
44. (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.
43. (with Semhar Ogbagaber) Regression Analysis of Sequentially Randomized Trials through Artificial Randomization, ENAR Spring Meeting, March 2014. Baltimore, Washington, DC.
42. A Flexible Correlation Structure for Joint Modeling of Multivariate Ordinal Medication Adherence Data. Joint Statistical Meetings, August 2013, Montreal, QC, Canada.
41. (with Emmanuel Sampene) Efficient Estimation of Relative Risk in Case-Cohort Studies. Joint Statistical Meetings, August 2013, Montreal, QC, Canada.
40. (with Semhar Ogbagaber) Design of Sequentially Randomized Trials for Comparing Adaptive Treatment Strategies, Society of Clinical Trials, May 2013, Boston, MA
39. (poster with Emmanuel Sampene) Efficient Estimation of Relative Risk in Case-Cohort Studies, 35th Midwest Biopharmaceutical Statistics Workshop, May 2013, Muncie, Indiana.

38. (poster with Emmanuel Sampene) Efficient Estimation of Relative Risk in Case-Cohort Studies, ASA Pittsburgh Chapter Banquet, April 2013, Pittsburgh, PA.
37. (with Kelley M. Kidwell) Weighted Log-rank Statistic to Compare Shared-path Adaptive Treatment Strategies. Joint Statistical Meetings, 2012, San Diego, CA.
36. (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.
35. (with Kelley M. Kidwell) Weighted Log-rank Statistic to Compare Shared-path Adaptive Treatment Strategies. International Biometric Society (ENAR) spring meetings, 2012, Washington, DC.
34. (with Abidemi K. Adeniji) Discrete Survival Analysis with Misclassified Events. International Biometric Society (ENAR) spring meetings, 2012, Washington, DC.
33. (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.
32. (poster with Chetachi A. Emeremni) Analysis of Variance for Right Censored Survival Data. International Biometric Society (ENAR) spring meetings, 2012, Washington, DC.
31. (poster with Yenchih Hsu) Inference for Two-stage Treatment Depression Regimes from Longitudinal Studies. 34th Midwest Biopharmaceutical Statistical Workshop, May 2011, Muncie, Indiana.
30. (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.
29. (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.
28. (poster with Abidemi K. Adeniji) Discrete Survival Analysis with Mis-classified Events. 34th Midwest Biopharmaceutical Statistical Workshop, May 2011, Muncie, Indiana.
27. (poster with Chetachi A. Emeremni) Variable Selection Techniques in Weighted Least Squares. 34th Midwest Biopharmaceutical Statistical Workshop, May 2011, Muncie, Indiana.
26. (with Xinyu Tang) Weighted Cumulative Treatment Estimation for Sequentially Randomized Clinical Trials in the Presence of Non-proportional Hazards, ENAR Spring Meetings, 2011.
25. (with Yen-chih Hsu) Weighted GEE for Response-Adaptive Treatment Regimes in Two-Stage Longitudinal Studies, ENAR Spring Meetings, 2011.
24. (with Zhen Jiang) Joint Modeling of Ordinal and Binary Longitudinal Outcomes Using GEE: Application to Medication Adherence, ENAR Spring Meetings, 2011.
23. (Poster with Jesse Hsu) Causal Inference for Treatment Strategies from Two-Stage Randomization Designs. 34th Midwest Biopharmaceutical Statistical Workshop, May 2010, Muncie, Indiana.
22. (With Jinhui Ko) Nonparametric Estimation of Median Residual Life Function for Two-Stage randomization Designs. ENAR Spring meeting 2010.
21. (With Xinyu Tang) Cox Proportional Hazard Model for Dynamic Treatment Regimes. ENAR Spring meeting 2010.
20. (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.
19. (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.
18. Supremum Weighted Log-rank Test and Sample Size for Comparing Two-stage Adaptive Treatment Strategies, July 2008, International Biometric Conference, Dublin.
17. Inverse-probability-weighting-based sample size formula for comparing two-stage adaptive treatment strategies. ENAR Spring Meetings 2008, Crystal City, Virginia.

16. 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.
15. (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.
14. (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.
13. 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).
12. 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.
11. Likelihood Inference for Survival Analysis in Two-stage Randomization Designs, Joint Statistical Meetings, August 2006, Seattle, Washington
10. (Poster with Wentao Feng) Inferences for Treatment Regimes in Two Stage Clinical Trials, Midwest Biopharmaceutical statistics workshop, May 2006, Muncie, Indiana.
9. (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.
8. (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.
7. A non-linear mixed effect model for hepatitis C viral dynamics, International Biometric Society (ENAR) spring meetings, 2005, Austin, TX, March, 2005.
6. 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).
5. Presented in the Faculty Seminar Series, Department of Biostatistics, University of Pittsburgh, October 2004.
4. (poster with Conjeevaram et al.) Race, Insulin Resistance, Visceral Adiposity and Hepatic Steatosis in Genotype 1 Patients with Chronic Hepatitis C, AASLD, November 2004.
3. 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.
2. 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.
1. 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.

## Advising

### PhD Students

1. Shannon Wooley. PhD in Biostatistics, Expected graduation: August 2017
2. Yimeng Liu. PhD in Biostatistics, Expected graduation: August 2017
3. Andrew Topp. PhD in Biostatistics, Expected graduation: August 2016
4. Geoff Johnson. PhD in Biostatistics, Expected graduation: August 2016

5. Yu-Ting Weng. PhD in Biostatistics, December 2014  
Dissertation Title: Differential Equation Modeling of Dengue Incidence  
Accepted position: Research Fellow, Food and Drug Administration
6. Olive Buhule. PhD in Biostatistics, Summer 2014  
Dissertation Title: Bayesian Hierarchical Joint Modeling of Continuous and Ordinal Markers of Disease Severity and Time-to-Event Data  
Current position: Post-doctoral Research Fellow, NICHD
7. Semhar Ogbagabar. PhD in Biostatistics, Summer 2014  
Dissertation Title: Topics in Two-Stage Randomization Designs for Clinical Trials  
Current position: Research Fellow, Food and Drug Administration
8. Emmanuel Sampene. PhD in Biostatistics, Summer 2013  
Dissertation Title: Efficient Estimation of Relative Risk in Case-Cohort Studies  
Current position: Research Fellow, Food and Drug Administration
9. 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
10. Chetachi Ememerni. PhD in Biostatistics, Summer 2012  
Dissertation Title: Inference for right censored, and right censored length biased data through inverse weighting  
Current position: Sr. Biostatistician, Novartis Pharmaceuticals Corporation
11. Abidemi Adeniji. PhD in Biostatistics, Summer 2012  
Dissertation Title: Incorporating diagnostic accuracy into the estimation of discrete survival function  
Current position: Statistician, Boehringer Ingelheim Pharmaceuticals
12. Kelley Kidwell. PhD in Biostatistics, Summer 2012  
Dissertation Title: Survival Analysis of Shared-Path Adaptive Treatment Strategies  
Current position: Research Assistant Professor of Biostatistics, University of Michigan
13. Zhen Jiang. PhD in Biostatistics, Summer 2011  
Dissertation Title: Joint Analysis of Longitudinal Ordinal and Binary Data: Application to Multiple Medication Adherence.  
Current position: Division of Biostatistics, Office of Biostatistics and Epidemiology, CBER, U.S. Food and Drug Administration
14. 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
15. Xinyu Tang. PhD in Biostatistics, Summer 2010  
Dissertation Title: Analyzing Survival Data For Sequentially Randomized Designs  
Current position: Assistant Professor, Department of Pediatrics, University of Arkansas for Medical Sciences
16. Jinhui Ko. PhD in Biostatistics, Summer 2010  
Dissertation Title: Inference on Median Residual Life Function from Sequentially Randomized Designs  
Current position: Statistician, GlaxoSmithkline
17. Sachiko Miyahara. PhD in Biostatistics, Summer 2009  
Dissertation Title: Statistical Inference for Treatment Regimes for longitudinal and time-to-event data  
Current position: Research Associate, Center for Biostatistics in AIDS Research, Department of Biostatistics, Harvard University

18. Wentao Feng. PhD in Biostatistics, Spring 2008  
 Dissertation Title: Sample size and power for comparing two-stage adaptive treatment strategies  
 Current position: Sr. Biostatistician, Novartis Pharmaceuticals Corporation

#### Honors and Awards by Advisees

- 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

#### MS Students

- 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

#### Teaching

##### *University of Pittsburgh*

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**



<b>Semester</b>	<b>Type of Teaching</b>
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 ( <a href="http://www.biostat.pitt.edu/ATSRG/meetings.htm">http://www.biostat.pitt.edu/ATSRG/meetings.htm</a> ) Adaptive Treatment Strategies Reading Group (ATSRG)
Fall 2011	Lead the adaptive treatment strategies reading group lectures ( <a href="http://www.biostat.pitt.edu/ATSRG/meetings.htm">http://www.biostat.pitt.edu/ATSRG/meetings.htm</a> ) 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**

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: KernelAssisted 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 Un-blinding

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**

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 Committees**

2013-present. Chair, Doctoral Monitoring Committee

2013-present. Member. PhD comprehensive Examination Committee

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)