

Education

- Ph.D. in Statistics (Minor: Genetics) December, 2013
Department of Statistics, University of Wisconsin-Madison
Dissertation: Statistical Models and SNP Detection Methods for Flash Sequencing
Advisor: Michael A. Newton, Ph.D.
- M.S. in Statistics June, 2008
Department of Statistics, University of Wisconsin-Madison
Advisor: Michael A. Newton, Ph.D.

Working Experience

- Research Assisitant Professor 2016~Now
Department of Biostatistics University of Florida
- Statistical Research Coordinator 2013~2015
Department of Biostatistics, University of florida
- Senior Statistical Analyst 2012~2013
Office of Institutional Planning & Research, University of Florida
- Research Assistant 2007~2012
Department of Statistics and Department of Genetics, University of Wisconsin-Madison
- Statistical Consultant 2007~2012
Department of Medicine, University of Wisconsin-Madison
- Project Assistant 2006~2007
Department of Radiology, University of Wisconsin-Madison

Computer Skills

- SAS, R/S-Plus/LaTex
- Microsoft Office Package

Research Interests

- Clinical Trial Design and Analysis
- Survival Analysis
- Longitudinal Data Analysis
- Bayesian Analysis

Selected Publications

A. Peer-refereed publications

1. Jia H., **Pei Q.**, Sullivan CT., Cowper Ripley DC., Wu SS., Vogel WB., Wang X. (2017), Bidelspach DE., Hale-Gallardo JL., Bates B.E. Regional variation in post-stroke rehabilitation care among Veteran residents in community nursing homes. *The Journal of Multidisciplinary Healthcare*,10:75-85
2. Dahodwala, N., **Pei, Q.**, Wu, S., Schmidt, P., Cubillos, F., Dahodwala, N. Sex Differences in Clinical Progression of Parkinson's Disease, *Journal of Obstetric, Gynecologic and Neonatal Nursing*, 45(5):749-56
3. Jia, H., **Pei, Q.**, Sullivan, C. T., Ripley, D. C. C., Wu, S. S., Bates, B. E., ... & Hoffman, N. (2016). Poststroke Rehabilitation and Restorative Care Utilization: A Comparison Between VA Community Living Centers and VA-contracted Community Nursing Homes. *Medical care*, 54(3), 235-242.
4. **Pei, Q.**, Chen, S., Xiao, Y., & S Wu, S. (2016). Applying Triple-Matrix Masking for Privacy Preserving Data Collection and Sharing in HIV Studies. *Current HIV research*, 14(2), 121-129.
5. Nadeau, S. E., Dobkin, B., Wu, S. S., **Pei, Q.**, & Duncan, P. W. (2015). The Effects of Stroke Type, Locus, and Extent on Long-Term Outcome of Gait Rehabilitation The LEAPS Experience. *Neurorehabilitation and neural repair*, 1545968315613851.
6. George, S. Z., Beneciuk, J. M., Bialosky, J. E., Lentz, T. A., Zeppieri Jr, G., **Pei, Q.**, & Wu, S. S. (2015). Development of a review-of-systems screening tool for orthopaedic physical therapists: results from the Optimal Screening for Prediction of Referral and Outcome (OSPRO) cohort. *journal of orthopaedic & sports physical therapy*, 45(7), 512-526.
7. Liphart, J., Gallichio, J., Tilson, J. K., **Pei, Q.**, Wu, S. S., & Duncan, P. W. (2016). Concordance and discordance between measured and perceived balance and the effect on gait speed and falls following stroke. *Clinical rehabilitation*, 30(3), 294-302.
8. Bega, D., Wu, S. S., **Pei, Q.**, Schmidt, P. N., & Simuni, T. (2014). Recognition and Treatment of Depressive Symptoms in Parkinson's Disease: The NPF Dataset. *Journal of Parkinson's disease*, 4(4), 639-643.
9. Kletzel, S. L., **Pei, Q.**, Weaver, F. M., Schmidt, P. N., & Simuni, T. (2014, May). Utilization and effectiveness of cognitive enhancers in Parkinson's disease: NPF registry. In *MOVEMENT DISORDERS* (Vol. 29, pp. S349-S349). 111 RIVER ST, HOBOKEN 07030-5774, NJ USA: WILEY-BLACKWELL.
10. Williams, C. L., McIntyre, J. C., Norris, S. R., Jenkins, P. M., Zhang, L., & **Pei, Q.** (2014). Direct evidence for BBSome-associated intraflagellar transport reveals distinct properties of native mammalian cilia. *Nature Communications*, 5, 5813.
11. **Pei, Q.**, Zuleger, C. L., Macklin, M. D., Albertini, M. R., & Newton, M. A. (2014). A conditional predictive p-value to compare a multinomial with an overdispersed multinomial in the analysis of T-cell populations. *Biostatistics*,15(1), 129-139.
12. Zuleger, C. L., Macklin, M. D., Bostwick, B. L., **Pei, Q.**, Newton, M. A., & Albertini, M. R. (2011). In vivo 6-thioguanine-resistant T cells from melanoma patients have public TCR and share TCR beta amino acid sequences with melanoma-reactive T cells. *Journal of immunological methods*, 365(1), 76-86.
13. Zuleger, C. L., Macklin, M. D., **Pei, Q.**, Newton, M. A., & Albertini, M. R. (2009). Identification of in vivo 6-thioguanine-resistant T cells reactive to melanoma-associated antigens (40.15). *The Journal of Immunology*, 182(1 Supplement), 40-15.

B. Proceeding Publications

14. Wu SS, **Pei Q**, Zaretski R, Jia H. Rank Sum Method for Determining the FedEx Cup Winner, 2014 *Joint Statistical Meetings*

C. Published Abstracts

15. Shah K, **Pei Q**, Wu SS, Schmidt P, Cubillos F, Dahodwala N. Sex Differences in Parkinson's Disease Caregiving , *abstract, Neurology*, vol 84, no. 14, April 2015

16. Dahodwala N, Schimdt P, **Pei Q**, Wu SS. Sex Differences in Clinical Progression of Parkinson's Disease, *abstract, PD progression, 2015*

Publications Under Review/In Progress

17. Jia H, **Pei Q**, Sullivan CT, Ripley DC, Wu SS, Bates BE, Vogel WB, Bidelspach DE, Wang X, Post-stroke activities of daily living improvement: Are there differences between VA community living centers and VA-contracted community nursing homes? *submitted*
18. Rose DK, Nadeau SE, Wu SS, Dobkin BH, **Pei Q**, Duncan PW. Dose Response to Locomotor Training and Strength and Balance Exercises for Walking Recovery Post-Stroke. *Submitted*
19. **Pei Q**, Wu SS, Jia H, Sullivan CT, Ripley DC, Bates BE, Vogel WB, Wang X, Application and comparison of four propensity score methods on VA post-stroke rehabilitation care data. *in progress*
20. Shahgholi L, Jesus SD, Wu SS, **Pei Q**, Hassan A, Schmidt P, Okun MS. The Profile of Hospital Encounters in Parkinson Disease Patients: 5 Year Data from the National Parkinson Foundation. *in progress*
21. Uphold C, Freytes M, Schember T, **Pei Q**. Evaluation of a telephone skills-building program for caregivers of veterans with stroke. *in progress*
22. Kahn J., **Pei Q**, Kara K. Differential outcomes by race, ethnicity and socioeconomic status in children and adolescents undergoing treatment for hodgkin lymphoma. *In progress*
23. Untanu RV, Back J, Appel B, **Pei Q**, Chen L, Buxton A, Hodgson DC, Ehrlich P, Constine LS, Schwartz CL, Hutchison R. Variant Histology with IgD expression is frequent in Pediatric Nodular Lymphocyte Predominant Hodgkin Lymphoma, but these nor CD30 expression, do not predict adverse outcome: A report from the Children's Oncology Group. *In progress*
24. Debra F, Lisa GR, **Pei Q**, Schwartz CL, Justin D, Buxton A, Kelly K. Risk analysis for secondary malignancies in Pediatric Hodgkin Lymphoma. *In progress*
25. Debra F, Lisa GR, **Pei Q**, Schwartz CL, Justin D, Buxton A, Kelly K. Analysis on outcomes for patients with Lymphocyte predominant disease in Pediatric Hodgkin Lymphoma. *In progress*
26. Cho SY, Lee I, Pei Q, Kelly K. Use of FDG PET quantitative assessment to improve prognosis and risk-stratification in pediatric hodgkin lymphoma. *In progress*

Selected Presentations

- Jia H, **Pei Q**, Sullivan CT, Cowper Ripley CD, Wu SS, Bates BE, Vogel WB, Bidelspach DE, Wang X, Hoffman N, Hale-Gallardo JL. Poster Presentation: "Regional Variation in Post-Stroke Rehabilitation Care Among Veteran Residents in Community Nursing Homes." *AcademyHealth Annual Research Meeting, June 27, 2016. Boston, MA.*
- Jia H, **Pei Q**, Sullivan CT, Cowper Ripley CD, Wu SS, Bates BE, Vogel WB, Bidelspach DE, Wang X, Hoffman N, Hale-Gallardo JL. Poster Presentation: "Post-Stroke Rehabilitation and Restorative Care Utilization: A Comparison Between VA Community Living Centers and VA Contracted Community Nursing Homes." *AcademyHealth Annual Research Meeting, June 27, 2016. Boston, MA.*
- Jia H, **Pei Q**, Sullivan CT, Cowper Ripley CD, Wu SS, Bates BE, Vogel WB, Bidelspach DE, Wang X, Hoffman N, Hale-Gallardo JL. Poster Presentation: "Post-Stroke Activities of Daily Living Improvement: Are There Differences Between VA Community Living Centers and VA-Contracted Community Nursing Homes?" *AcademyHealth Annual Research Meeting, June 27, 2016. Boston, MA.*
- Lee M, Romero S, **Pei Q**, Cowper Ripley DC, Jia H. Poster Presentation: "Create an Interval ADL Scale with Rasch Analysis." *29th Annual Public Health and Health Professionals Research Day. May 20, 2016. University of Florida, Gainesville, FL*
- Lee MJ, Romero S, **Pei Q**, Cowper Ripley DC, Jia H. Poster presentation: "Using Rasch Analysis to Create an Interval ADL Scale." *2016 Research Day of VA North Florida/South Georgia Veterans Health System. Gainesville, FL*

- Solberg LM, **Pei Q**, Oida MT, Moore F, Pahor M, Wu SS, Manini TM. Geriatrics Consults Associated with Improved Mortality and Disposition in Hospitalized Elders, *Annual Scientific Conference of the American Geriatrics Society, National Harbor, MD, 2015*
- Jesus SD, Shahgholi L, Wu SS, **Pei Q**, Hassan A, Schmidt P, Okun M. Rehospitalization in Parkinson Disease Patients, *19th International Congress of Parkinson's Disease and Movement Disorders, San Diego, 2015*
- Shahgholi L, Jesus SD, Wu SS, **Pei Q**, Hassan A, Schmidt P, Okun M. The Profile of the Hospitalized and Re-Hospitalized Parkinson Disease Patient: 5 Year Data from the National Parkinson Foundation, *Annual Meeting of the American Academy of Neurology, Washington, 2015*
- Wu SS, **Pei Q**, Zaretzki R, Jia H. Rank Sum Method for Determining the FedEx Cup Winner Samuel, *Joint Statistical Meetings, Boston, 2014*
- Wu SS, Chen S, **Pei Q**, Zhang L, Burr D. Privacy-preserving Data Collection Techniques for Clinical Trials, *IMPACT Symposium III, Cary, NC, 2014*
- **Pei Q**, Zuleger CL, Macklin MD, Bostwick BL, Albertini MR, Newton MA. A conditional predictive p-value to compare a multinomial with an overdispersed multinomial in the analysis of t-cell populations, *MathBio3: Modeling symposium, Madison, 2011*
- **Pei Q**, Schwartz DC, Newton MA. Statistical Models and SNP Detection Methods for Flash Sequencing, *Seminar talk in MD Anderson Cancer Center, 2011*