

## CURRICULUM VITAE

**NAME:** Michael Patrick Fay

**DATE AND PLACE OF BIRTH:** November 21, 1963 Washington D.C.

**CITIZENSHIP:** United States of America

**PRESENT ADDRESS, TELEPHONE NUMBER, FAX, E-MAIL:**

**Home:**

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Washington D.C. 20010-1008

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**EDUCATION:**

May 1987 - B.A. (Mathematics, minor:Physics), University of Virginia, Charlottesville, Virginia

August 1993 - Ph.D. (Biostatistics), Medical College of Virginia at Virginia Commonwealth University, Richmond, Virginia

**POSITIONS HELD:**

- 1991 Summer Intern, Pharmaceutical Research Associates, Charlottesville, Virginia.
- Provide SAS programming support and help writing reports.
- 1990-1992 Student Fellowship, Burroughs Wellcome Co., Research Triangle Park, North Carolina.
- Provide SAS programming support.
- 1992-1993 Student Co-director, Biostatistical Consulting Laboratory, Medical College of Virginia, Richmond, Virginia
- Meet with medical researchers, assess statistical needs and assign students to project.
- 1993 Guest Instructor, Medical College of Virginia, Richmond, Virginia.
- 1993 Statistician, Statistics Collaborative, Washington, D.C.
- Analyze data and write reports.
- 1994-1996 Intramural Research Training Award Fellow, Biometry Branch, Division of Cancer Prevention and Control, National Cancer Institute, NIH, Bethesda, Maryland.
- Work either collaboratively or independently to develop statistical methods relevant for cancer research
- 1996-1997 Senior Staff Fellow, Biometry Branch, Division of Cancer Prevention and Control, National Cancer Institute, NIH, Bethesda, Maryland.
- Work either collaboratively or independently to develop statistical methods relevant for cancer research
- 1998 Visiting Statistician, St. John's Medical College, Bangalore, India.
- Provide statistical support for researchers at the medical college. Including help

- 1993 Eastern North American Region Biometric Society Student Travel Award.
- 2001 NIH Merit Award: For developing novel methods and models for the presentation and analysis of the nation's population-based cancer statistics.
- 2010 Follmann, Fay, and Proschan (2009) awarded Best Paper in Biometrics by an IBS Member for 2009.
- 2010 NIH Merit Award: For exemplary performance in the establishment of an outstanding collaborative environment with NIAID researchers involved in parasitic diseases.
- 2011 NIH Merit Award: For displaying exceptional leadership, communication, and collaborative skills to address mission-critical regulatory science needs for the development and use of medical countermeasures.

**MENTORING:**

- 2002 Ji-Hyun Lee, Statistical Research Assistant, SRAB, NCI.
- 2006 Farzad Noubary, Summer Intern, NIAID
- 2010-2011 Jennifer L. Kirk, Postbaccalaureate Intramural Research Training Award Fellow, NIAID.
- 2014-2016 Sungwook (Peter) Kim, Postdoctoral Fellow, NIAID

**SERVICE:**

- Science fair judge for Washington Statistical Society (2006-present).
- Chaired sessions at Joint Statistical meetings and ENAR.
- 2014 Extended Advisory Board Member, FastVac.
- March 2015: NASA Human Exploration Research Opportunities (HERO) Immunology/Microbiology Review Panel.

**PEER-REVIEWED PUBLICATIONS (STATISTICAL):**

Fay, MP, Gennings, C. (1996). Nonparametric Two-Sample Tests for Repeated Ordinal Responses. *Statistics in Medicine* **15**, 429-442.

Fay, MP. (1996). Rank Invariant Tests for Interval Censored Data under the Grouped Continuous Model. *Biometrics* **52**, 811-822.

Fay, MP, Feuer, EJ. (1997). Confidence Intervals for Directly Standardized Rates: A Method Based on the Gamma Distribution. *Statistics in Medicine* **16**, 791-801.

Fay, MP, Feuer, EJ. (1997). A Semiparametric Estimate of Extra-Poisson Variation for Vital Rates. *Statistics in Medicine* **16**, 2389-2401.

Fay, MP, Shih, JH. (1998). Permutation Tests using Estimated Distribution Functions. *Journal of the American Statistical Association* **93**, 387-396, March.

Fay, MP, Graubard, BI, Freedman, LS, Midthune, DN. (1998). Conditional Logistic Regression with Sandwich Estimators: Application to a Meta-Analysis. *Biometrics* **54**, 195-208.

Fay, MP, Tiwari, RC., Feuer, EJ, Zou, Z. (2006). Estimating Average Annual Percent Change for Disease Rates without Assuming Constant Change. *Biometrics* **62**,847-854.

Fay, MP, Halloran, ME, Follmann, DA. (2007). Accounting for Variability in Sample Size Estimation with Applications to Nonadherence and Estimation of Variance and Effect Size. *Biometrics* **63**, 465-474.

Fay, MP, Huang, C-Y, Twum-Danso, NAY. (2007). Monitoring Rare Serious Adverse Events from a New Treatment and Testing for a Difference from Historical Controls. *Clinical Trials* **4**,598-610.

Fay, MP, Kim, H-J, and Hachey, M. (2007). On using Truncated Sequential Probability Ratio Test Boundaries for Monte Carlo Implementation of Hypothesis Tests. *Journal of Computational and Graphical Statistics* **16** (4), 946-967.

Fay, MP, Noubary, F, Saul, A. (2009). Robust Non-inferiority Tests for Potency of a Test Drug Against a Reference Drug. *Statistics in Biopharmaceutical Research* **1**(3):291-300.

Follmann, DA, Fay, MP, Proschan, MA. (2009). Chop-lump tests for vaccine trials. *Biometrics* **65**, 885-893.

Follmann, DA, Fay, MP (2010). Exact Inference for Complex Clustered Data Using Within Cluster Resampling. *Journal of Biopharmaceutical Statistics* **20**(4) 850-869.

Fay, MP. (2010). Confidence intervals that match Fisher's exact or Blaker's exact tests. *Biostatistics* **11**, 373-374.

Proschan, MA, Brittain, EH, and Fay, MP (2010). Does Treatment Effect Depend on Control Event Rate? Revisiting a Meta-analysis of Suicidality and Antidepressant Use in Children. *Clinical Trials* **7**, 109-117.

Fay, MP, Proschan, MA (2010). Wilcoxon-Mann-Whitney or t-Test? On Assumptions for Hypothesis Tests and Multiple Interpretations of Decision Rules. *Statistics Surveys* **4**:1-39 (available at <http://projecteuclid.org/euclid.ssu/1266847666>).

Fay, MP, Shaw, PA (2010). "Exact and Asymptotic Weighted Logrank Tests for Interval Censored Data: The interval R package. *Journal of Statistical Software*. Vol 36, Issue 2, 1-34 (available at <http://www.jstatsoft.org/v36/i02> ).

Fay, MP (2010). Two-sided Exact Tests and Matching Confidence Intervals for Discrete Data. *R Journal* **2**(1) 53-58. (available at [http://journal.r-project.org/archive/2010-1/RJournal\\_2010-1\\_Fay.pdf](http://journal.r-project.org/archive/2010-1/RJournal_2010-1_Fay.pdf).)

Follmann, D, Fay, M (2012). Bounds on the effect of vaccine induced immune response on outcome. *International Journal of Biostatistics* Vol 8, Iss. 2, Article 3.

Fay, MP, Freedman, LS, Clifford, C, Midthune, DN. (1997). Effects of Different Types and Amounts of Fat on the Development of Mammary Tumors in Rodents: A Review. *Cancer Research* **57**, 3979-3988.

Fay, MP., Freedman, LS. (1997). Meta-Analyses of Dietary Fats and Mammary Neoplasms in Rodent Experiments. *Breast Cancer Research and Treatment* **46**(2-3):215-223.

Sampath, S, Fay, MP, Pais, P. (1999). Use of the logistic organ dysfunction system to study mortality in an Indian intensive care unit. *National Medical Journal of India* **12**(6), 258-261.

Pias, P, Fay, MP, Yusuf, S. (2001). Increased Risk of Acute Myocardial Infarction Associated with Beedi and Cigarette Smoking in Indians: Final Report on Tobacco Risks from a Case-Control Study. *Indian Heart Journal* Nov-Dec, **53**: 731-735.

Warren, JL, Brown, M, Fay, MP, Schussler, N, Potosky, AL, Riley, GF. (2002). Costs of Treatment for Elderly Women with Early Stage Breast Cancer in Fee-for-Service Settings. *Journal of Clinical Oncology* **20**(1), 307-316.

Clegg, LX, Feuer, EJ, Midthune, DN, Fay MP, Hankey BF. (2002). Impact of Reporting Delay and Reporting Error on Cancer Incidence Rates and Trends. *Journal of the National Cancer Institute* **94** (20), 1537-1545.

Radimer, KL, Ballard-Barbash, R, Miller, JS, Fay, MP, Schatzkin, A, Troiano, RP, Kreger, BE, Splansky, GL. (2004). Weight change and the risk of late onset breast cancer in the original Framingham cohort. *Nutrition and Cancer* **49** (1), 7-13.

Faden, VB, Fay, MP. (2004). Trends in Drinking among Americans Age 18 and Younger: 1975-2002. *Alcoholism: Clinical and Experimental Research* **28** (9), 1388-1395.

Cronin, KA, Yu, B, Krapcho, M, Miglioretti, DL, Fay, MP, Izmirlian, G, Ballard-Barbash, R, Geller, BM, Feuerm EJ. (2005). Modeling the dissemination of mammography in the United States. *Cancer Causes and Control* **16**, 701-712.

McPherson, T, Persaud, S, Singh, S, Fay, MP, Addiss, D, Nutman, TB, Hay, R. (2006). Interdigital lesions and frequency of acute dermatolymphangioadenitis in filarial lymphoedema. *British Journal of Dermatology* **154** (5), 933-941.

McPherson, T, Fay, MP, Singh, S, Penzer, R, Hay, R. (2006). Health workers' agreement in clinical description of filarial lymphedema. *American Journal of Tropical Medicine & Hygiene* **74**(3), 500-504.

Malkin, E., Long, C.A., Stowers, A.W., Zou, L., Singh, S., MacDonald, N., Narum, D.L.,

Kimblin, N, Peters, N, Debrabant, A, Secundino, N, Egen, J, Lawyer, P, Fay, MP, Kamhawi, S, Sacks, D. (2008). Quantification of the infectious dose of *Leishmania major* transmitted to the skin by single sand flies. *Proceedings of the National Academy of Sciences* **105**,10125-10130.

Wu, Y, Ellis, RD, Shaffer, D, Fontes, E, Malkin, EM, Mahanty, S, Fay, MP, Narum, D, Rausch, K, Miles, AP, Aebig, J, Orcutt, A, Muratova, O, Song, G, Lambert, L, Zhu, D, Miura, K, Long, C, Saul, A, Miller, LH, Durbin, AP. (2008). Phase 1 trial of malaria transmission blocking vaccine candidates Pfs25 and Pvs25 formulated with Montanide ISA 51. *PLoS ONE* **3**(7): e2636, doi:10.1371/journal.pone.0002636.

Peters, NC, Egen, JG, Secundino, N, Debrabant, A, Kimblin, N, Kamhawi, S, Lawyer, P, Fay, MP, Germain, RN, Sacks, D. (2008). In vivo imaging reveals an essential role for neutrophils in Leishmaniasis transmitted by sand flies. *Science* **321** (5891): 970-974.

Mullen, GED, Ellis, RD, Miura, K, Malkin, E, Nolan, C, Hay, M, Fay, MP, Saul, A, Zhu, D, Rausch, K, Mortetz, S, Zhou, H, Long, CA, Miller, LH, Treanor, J. (2008). Phase 1 trial of AMA1-C1/Alhydrogel plus CPG 7909: an asexual blood-stage vaccine for *Plasmodium falciparum* malaria. *PLoS ONE* **3**(8): e2940 doi:10.1371/journal.pone.0002940.

Lyon, JA, Angov, E. , Fay, MP, Sullivan, JS, Girourd, AS, Robinson, SJ, Bergmann-Leitner, ES, Duncan, EH, Darko, CA, Collins, WE, Long, CA, Barnwell, JW. (2008). Protection induced by *Plasmodium falciparum* MSP142 is strain specific, antigen and adjuvant dependent, and correlates with antibody responses. *PLoS ONE*. **3**(7), e2830. doi: 10.1371/journal.pone.0002830.

Raj, DK, Mu, J, Jiang, H, Kabat, J, Singh, S, Sullivan, M, Fay, MP, McCutchan, TF, Su, X (2009). Disruption of a *Plasmodium falciparum* multidrug resistance-associated protein (PfMRP) alters its fitness and transport of antimalarial drugs and glutathione. *Journal of Biological Chemistry* **284**, 7687-7696.

Miura, K, Zhou, H, Diouf, A, Moretz, SE, Fay, MP, Miller, LH, Martin, LB, Ellis, RD, Muller, GED, Long, CA. (2009). Anti-Apical Membrane Antigen 1 antibody is more effective than anti-Merozoite Surface Protein 142 antibody in inhibiting *Plasmodium falciparum* growth as measured by in vitro Growth Inhibition Assay. *Clinical and Vaccine Immunology* **16**, 963-968.

Coulibaly, YI, Dembele, B, Diallo, AA, Lipner, EM, Doumbia, SS, Coulibaly, SY, Konate, S, Diallo, DA, Yalcouye, D, Doumbo, OK, Traore, AK, Keita, AD, Fay MP, Traore, SF, Nutman, TB, Klion, AD. (2009). Efficacy of doxycycline for the treatment of *Mansonella perstans* infection: an open label, randomized trial with and without the addition of single dose ivermectin and albendazole. *New England Journal of Medicine* **361**(15):1448-58.

Vaccine in the United States and Mali. *American Journal of Tropical Medicine and Hygiene* 83(4), 868-872.

Dembele, B, Coulibaly, YI, Dolo, H, Konate, S, Coulibaly, SY, Sanogo, D, Soumaoro, L, Coulibaly, ME, Doumbia, SS, Diallo, AA, Traore, SF, Keita, AD, Fay, MP, Nutman, TB, and Klion, AD (2010). Use of High-Dose, Twice-Yearly Albendazole and Ivermectin to Suppress *Wuchereria bancrofti* Microfilarial Levels. *Clin Infect Dis.* 51 (11): 1229-1235.

Anderson, JM, Samake, S, Jaramillo-Gutierrez, G, Sissoko, I, Coulibaly, CA, Traore, B, Soucko, C, Guindo, B, Diarra, D, Fay, MP, Lawyer, PG, Doumbia, S, Valenzuela, JG, Kamhawi, S. (2011). Seasonality and prevalence of *Leishmania major* infection in *Phlebotomus duboscqi* Neveu-Lemaire from two neighboring villages in Central Mali. *PLoS Neglected Tropical Diseases* 5(5): e1139. doi:10.1371/journal.pntd.0001139.

Duncan, CJA, Sheehy, SH, Ewer, K, Douglas, AD, Collins, KA, Halstead, FD, Elias, SC, Lillie, PJ, Rausch, K, Aebig, J, Miura, K, Edwards, NJ, Poulton, ID, Hunt-Cooke, A, Porter, DW, Thomson, FM, Rowland, R, Draper, SJ, Gilbert, SC, Fay, MP, Long, CA, Zhu, D, Wu, Y, Lawrie, AM, Hill, AVS, Ellis, RD. (2011). Impact on Malaria Parasite Multiplication Rates in Infected Volunteers of the Protein-in-Adjuvant Vaccine AMA1-C1/Alhydrogel + CPG 7909. *PLoS ONE* 6(7): e22271. doi:10.1371/journal.pone.0022271.

Stamper, L, Patrick, R, Lawyer, P, Fay, MP, Elnaïem, D-E, Secundino, N, Sacks, DL, and Peters, NC (2011). Infection parameters in the sand fly vector that predict transmission of *Leishmania major*. *PLoS Negl Trop Dis* 5(8): e1288. doi:10.1371/journal.pntd.0001288.

Ellis, RD, Fay, MP, Sagara, I, Dicko, A, Miura, K, Guindo, MA, Guindo, A, Sissoko, S, Doumbo, O, Diallo, D. (2011). Anemia in a Phase 2 study of a Blood Stage Falciparum Malaria. *Malaria Journal* 10:13 doi:10.1186/1475-2875-10-13.

Miura, K, Zhou, H, Diouf, A, Tullo, G, Moretz, SE, Aebig, JA, Fay, MP, Miller, LH, Doumbo, OK, Sagara, I, Dicko, A, Long, CA, Ellis, RD. (2011). Immunological responses against *Plasmodium falciparum* Apical Membrane Antigen 1 vaccines vary depending on the population immunized. *Vaccine* 29(12): 2255-2261.

Giorgobiani, E, Chitadze, N, Chanturya, G, Grdzeldze, M, Machablishvili, A, Tushishvili, T, Zedginidze, Y, Manjgaladze, M, Iashvili, N, Makharadze, M, Zakaraya, T, Kikaleishvili, K, Markhvashvili, I, Badashvili, G, Daraselya, T, Fay, MP, Kamhawi, S, Sacks, D. (2011). Epidemiologic Aspects of an Emerging Focus of Visceral Leishmaniasis in Tbilisi, Georgia. *PLoS Neglected Tropical Diseases* 5(12): e1415. doi:10.1371/journal.pntd.0001415.

Wilson, TD, Maric, I, Shukla, J, Brown, M, Santos, C, Simakova, O, Khoury, P, Fay, MP, Kozhich, A, Kolbeck, R, Metcalf, DD, Klion, AD (2011). IL-5 receptor  $\alpha$  levels in patients with marked eosinophilia or mastocytosis. *Journal of Allergy and Clinical Immunology* 128 (5), 1086-1092.

Lopera-Mesa, TM, Doumbia, S, Chiang, S, Zeituni, AE, Konate, D, Doumbouya, M, Stepniewska, K, Traore, K, Diakite, SAS, Sa, JM, Ndiaye, D, Anderson, JM, Fay, MP, Long, CA, Diakite, M, Fairhurst, RM (2013). Plasmodium falciparum clearance rates in response to artesunate in Malian children with malaria: effect of acquired immunity. *Journal of Infectious Diseases* 207 1655-1663.

Mita-Mendoza, NK, van de Hoef, DL, Lopera-Mesa, TM, Doumbia, S, Konaté, D, Doumbouya, M, Gu, W, Anderson, JM, Santos-Argumedo, L, Rodriguez, A, Fay, MP, Diakité, M, Long, CA, Fairhurst, RM. (2013). A Potential Role for Plasma uric acid in the endothelial pathology of *Plasmodium falciparum* malaria. *PLoS ONE* 8(1), e54481. Doi:10.1371/journal.pone.0054481.

Miura, K, Deng, B, Tullo, G, Diouf, A, Moretz, SE, Locke, E, Morin, M, Fay, MP, Long, CA. (2013). Qualification of standard membrane-feeding assay with *Plasmodium falciparum* malaria and potential improvements for future assays. *PLoS ONE* 8(3):e57909.

Da, DF, Dixit, S, Sattabongot, J, Mu, J, Abate, L, Ramineni, B, Ouedraogo, JB, MacDonald, NJ, Fay, MP, Su, X-Z, Cohuet, A, Wu, Y. (2013). Anti-Pfs25 Human Plasma Reduces Transmission of Plasmodium falciparum Isolates Having Diverse Genetic Background. *Infection and Immunity* 81(6), 1984-1989.

Miura, K., Takashima, E., Deng, B., Tullo, G., Diouf, A., Moretz, S. E., Nikolaeva, D., Diakite, M, Fairhurst, R.M., Fay, MP, Long, CA, Tsuboi, T. (2013). Functional comparison of Plasmodium falciparum transmission-blocking vaccine candidates by the standard membrane-feeding assay. *Infection and immunity*, 81(12), 4377-4382.

Kumar, N. P., Sridhar, R., Banurekha, V. V., Jawahar, M. S., Fay, M. P., Nutman, T. B., and Babu, S. (2013). Type 2 Diabetes Mellitus Coincident with Pulmonary Tuberculosis Is Associated with Heightened Systemic Type 1, Type 17, and Other Proinflammatory Cytokines. *Annals of the American Thoracic Society*, 10(5), 441-449.

Shobab, L, Pleyer, U, Johnsen, J, Metzner, S, James, ER, Torun, N, Fay, MP, Liesenfeld, O, and Grigg, ME. (2013). Toxoplasma serotype is associated with development of ocular toxoplasmosis. *Journal of Infectious Diseases* 208(9), 1520-1528.

Sangare, M, Hendrickson, B, Chen, K, Sango, HA, Nofziger, J, Amara, A, Dutra, A, Schindler, AB, Guindo, A, Traore, M, Harmison, G, Pak, E, Yaro, FN, Bricceno, K, Grunseich, C, Chen, G, Boehen, M, Zukosky, K, Bocoum, N, Meilleur, KG, Daou, F, Bayayogo, K, Coulibaly, YI, Diakite, M, Fay, MP, Lee, HS, Saad, A, Gribaa, M,

*Plasmodium falciparum* clinical isolates can infect diverse mosquito vectors of Southeast Asia and Africa. *Nature Communications*. 6: 8614. Doi:10.1038/ncomms9614.

Hasugian, AR, Siswantoro, H, Fay, MP, Tjitra, E. (2015). Artemisinin-Napthoquine versus Dihydroartemisinin-Piperaquine in Adult Subjects with *Plasmodium vivax* Infection. *Health Science Journal of Indonesia*. 6(2) 92-98.

Amaratunga, C, Lim, P, Suon, S, Sreng, S, Mao, S, Sopha, C, Sam, B, Dek, D, Try, V, Amato, R, Blessborn, D, Song, L, Tullo, GS, Fay, MP, Anderson, JM, Tarning, J, Fairhurst, RM (2016). Dihydroartemisinin-piperaquine resistance in *Plasmodium falciparum* malaria in Cambodia: a multi-site prospective cohort study. *Lancet Infectious Diseases* 16: 357-365.

Drame, P, Montavon, C, Pion, S, Kubofcik, J, Fay, M, Nutman, T. (2016). Molecular Epidemiology of Blood-Borne Human Parasites in a Loa loa-, *Mansonella perstans*- and *Plasmodium falciparum*-Endemic Region of Cameroon. *American Journal of Tropical Medicine and Hygiene*. 94(6): 1301-1308.

Clark, CE, Fay, MP, Chico, ME, Sandoval, CA, Vaca, MG, Boyd, A, Cooper, PJ, Nutman, T (2016). Maternal helminth infection is associated with higher infant IgA titers to orally administered vaccines. *Journal of Infectious Diseases*. 213 (12): 1996-2004.

Khoury, P, Desmond, R, Pabon, A, Holland-Thomas, N, Ware, JA, Maric, I, Kurlander, R, Fay, MP, Klion, AD. (2016). Clinical features predict responsiveness to imatinib in platelet-derived growth factor receptor-alpha-negative hypereosinophilic syndrome. *Allergy* 71: 803-810.

Miura, K, Swihart, BJ, Deng, B, Zhou, L, Pham, TP, Diouf, A, Burton, T, Fay, MP, Long, CA. (2016). Transmission-blocking activity is determined by transmission-reducing activity and control oocysts in standard membrane-feeding assay. *Vaccine* 34(35): 4145-4151.

Talaat, KR, Ellis, RD, Hurd, J, Hentrich, A, Gabriel, E, Hynes, NA, Rausch, KM, Zhu, D, Muratova, O, Herrera, R, Anderson, C, Jones, D, Aebig, J, Brockley, S, MacDonald, NJ, Wang, X, Fay, MP, Healy, SA, Durbin, AP, Narum, DL, Wu, Y, Duffy, PE (2016). Safety and Immunogenicity of Pfs25-EPA/Alhydrogel®, a Transmission Blocking Vaccine against *Plasmodium falciparum*: An Open Label Study in Malaria Naïve Adults. *PLoS ONE* 11(10): e0163144. doi:10.1371/journal.pone.0163144.

#### **NON-PEER-REVIEWED PUBLICATIONS:**

Fay, MP, Midthune, DN, Graubard, BI, Freedman, LS. (1999). Meta Analyses using Conditional Logistic Regression with Sandwich Estimators. Proceedings of the Biopharmaceutical Section, American Statistical Association.

Shih, JH, and Fay, MP. Independence Tests and Estimation of Rank Correlation for Clustered Data.

Fay, MP, Sachs, MC, and Miura, K. A Hypothesis Testing Framework for Validating an Assay for Precision.

#### **SOFTWARE:**

Worked with the team that developed the Joinpoint and DevCan software at the National Cancer Institute.

Author and maintainer of the following R packages: asht, binseqtest (with JL Kirk), bpcp, choplump, exactci, exact2x2, interval, MCTest, perm, rateratio.test, ssanv.

#### **PRESENTATIONS:**

- 1993 Contributed Talk, 1993 Spring Meetings, ENAR, "Ordered Multinomial Population Scores: A Generalization of Midrank Scores"
- 1995 Contributed Talk, 1995 Joint Statistical Meetings, "Rank Invariant Tests for Interval Censored Data under the Grouped Continuous Model"
- 1996 Contributed Talk, 1996 Joint Statistical Meetings, "Hypothesis Tests using Estimated Distribution Functions"
- 1997 Contributed Talk, 1997 Spring Meetings, ENAR, "Conditional Logistic Regression with Sandwich Estimators: Application to a Meta-Analysis"
- 1999 (Special) Contributed Talk, 1999 Joint Statistical Meetings, "Meta Analyses using Conditional Logistic Regression with Sandwich Estimators"
- 2000 Contributed Talk, 2000 Spring Meetings, ENAR, "Small Sample Adjustments for Wald-type Tests using Sandwich Estimators"
- 2002 Contributed Talk, 2002 Spring Meetings, ENAR, "Designing Monte Carlo Implementations of Permutation or Bootstrap Hypothesis Tests"
- 2004 Contributed Talk, 2004 Joint Statistical Meetings, "Rethinking the Adjustment for Chance in Agreement Coefficients"
- 2005 Fay, M.P., Halloran, M.E., Follmann, D.A., Diemert, D., Dicko, A., Thera, M., Sagara, I., Klion, A., Doumbo, O., Saul, A. (2005). The Design of a Phase 2 Malaria Vaccine Trial Based on a Cohort Study. Poster presented at 4th MIM Pan-African Malaria Conference.
- 2006 Invited Talk, 2006 Spring Meetings, ENAR, "Accounting for Variability in Sample Size Estimation with Applications to a Malaria Vaccine Trial"
- 2006 Invited Talk, 2006 Joint Statistical Meetings, "Accounting for Variability in Sample Size Estimation with Application to a Malaria Vaccine Phase II Trial"

- 2012 Invited Talk: “Using Anthrax Vaccine Induced Antibodies to Predict Survival of Animals and Humans” DBPAP, CBER, FDA.
- 2013 Invited Talk: “Weighted Logrank Tests for Interval-Censored Data when Assessment Depends on Treatment” ICSA/ISBS Conference
- 2013 Contributed “Speed” Talk/Poster: “Two-Sample Test for Differences in Survival at a Fixed Time Point with Small Sample Sizes” Joint Statistical Meetings, Montreal, Canada.
- 2014 Topic Contributed Talk: “Two Sample Inferences for Differences in Survival at a Fixed Time Point with Small Sample Sizes” Joint Statistical Meetings, Boston.
- 2015 Invited Talk: “Nonparametric Methods for Interval Censored Data”. Johns Hopkins Biostatistics.
- 2015 Contributed Talk: “Finite Sample Confidence Intervals for a Survival Distribution with Right-Censored Data” Joint Statistical Meetings, Seattle, Washington.
- 2015 Invited Talk: “Combining One Sample Confidence Interval Procedures in the Two Sample Case” University of Pennsylvania.
- 2016 Invited Talk: “Combining One Sample Confidence Interval Procedures in the Two Sample Case” NIH/NICHD Biostatistics and Bioinformatics Branch.
- 2016 Invited Talk: “Combining One-Sample Confidence Interval Procedures for Valid Non-Asymptotic Inference in the Two-Sample Case” Fusion Learning and BFF Inferences and Statistical Foundations. Rutgers University.
- 2016 Contributed Talk: “Noninferiority Tests for Anti-infective Drugs Using Control Quantiles” Joint Statistical Meetings, Chicago, IL.
- 2016 Invited Talk: “Some Statistical Issues with Animal Models” Animal Model Development Workshop, NIH/NIAID.

Last Revised on November 18, 2016