CURRICULUM VITAE   **October 2020**
YING HUANG, PhD

FACULTY POSITIONS HELD

2009-2010	Assistant Professor (tenure track), Department of Biostatistics, Columbia University, New York, NY
2010-2013	Assistant Member, Vaccine and Infectious Disease Division Assistant Member, Public Health Sciences Division Fred Hutchinson Cancer Research Center, Seattle, WA
2011-	Member, Fred Hutch/University of Washington Cancer Consortium, Seattle, WA
2012-2014	Affiliate Assistant Professor, Department of Biostatistics, University of Washington, Seattle, WA
2014-	Associate Member, Vaccine and Infectious Disease Division Associate Member, Public Health Sciences Division Fred Hutchinson Cancer Research Center, Seattle, WA
2014-	Affiliate Associate Professor, Department of Biostatistics, University of Washington, Seattle, WA
2019-	Full Professor, Vaccine and Infectious Disease Division Full Professor Public Health Sciences Division Fred Hutchinson Cancer Research Center, Seattle, WA
2020-	Affiliate Professor, Department of Biostatistics, University of Washington, Seattle, WA

HONORS

1993	Fudan University Merit Award
1994	Fudan University Merit Award
1995	Fudan University Merit Award, top performance in classwork
1996	Outstanding Graduate, Fudan University
1997-2000	Premium for Academic Excellence Award, Graduate College, Iowa State University, Ames, IA
1999	Sigma Xi
1999	Vera David Graduate Fellowship in Statistics, awarded to top female students for the second year of study, Iowa State University, Ames, IA
2000	Phi Kappa Phi
2007	Student Travel Award, Health Science Policy Section, Joint Statistical Meetings
2011-2014	Cancer Center Support Grant Recruitment Award
2014	W.J. Youden Award in Interlaboratory Testing, American Statistical Association
2019	SPAIG (Statistical Partnerships Among Academe, Industry & Government) Award, American Statistical Association

PROFESSIONAL ORGANIZATIONS

2010-	American Statistical Association

2010-	Institute of Mathematical Statistics
2011-	Eastern North American Region of the International Biometric Society
2011-	International Chinese Statistical Association
2012-	International Biometric Society

TEACHING RESPONSIBILITIES

2000	*Teaching Assistant*, Multivariate Statistical Methods STAT501, Department of Statistics, Iowa State University, Ames, IA
2004	*Teaching Assistant*, Correlated Data Analysis BIOST540, Department of Biostatistics, University of Washington
2010	*Instructor*, Theory of Multivariate Analysis BIOST-P8129, Department of Biostatistics, Columbia University
2011	*Guest Lecturer*, Statistical methods for the evaluation of biomarkers and medical tests BIOST-B578, Department of Biostatistics, University of Washington
2012	*Co-Instructor*, Module 10: Evaluating Immune Correlates of Protection and Vaccine Effects on Pathogen Sequences, Summer Institute in Statistics and Modeling of Infectious Diseases, Department of Biostatistics, University of Washington
2013	*Co-Instructor,* Module 8: Evaluating Immune Correlates of Protection, Summer Institute in Statistics and Modeling of Infectious Diseases, Department of Biostatistics, University of Washington
2014	*Co-Instructor,* Module 8: Evaluating Immune Correlates of Protection, Summer Institute in Statistics and Modeling of Infectious Diseases, Department of Biostatistics, University of Washington

A. Post-Doctoral Fellows

2011-2013	Shuxin Yin, PhD (co-mentor with Youyi Fong)
2011-2014	Chaeryon Kang, PhD (co-mentor with Holly Janes)
2013-2014	Shibasish Dasgupta, PhD
2013-2015	Soyoung Kim, PhD
2014-2016	Sayan Dasgupta, PhD (co-mentor with Ying Qing Chen)
2016-2017	Bin Yao, PhD
2016-2018	Lu Wang, PhD
2016-2018	Juhee Cho, PhD
2017-2020	Tao Yang, PhD
2020-	Brian Williamson, PhD

B. PhD Candidates

2010-2012	Erin Gabriel, Department of Biostatistics, University of Washington, Seattle, WA (Reading Committee)
2012-2014	Cheng Zheng, Department of Biostatistics, University of Washington (Reading Committee)
2014-2016	Wenying Zheng, Department of Biostatistics, University of Washington (Reading Committee)

2015-2017	Yingying Zhuang, Department of Biostatistics, University of Washington (Co-Chair with Peter Gilbert)

C. MS Candidates

2010-2012	William Cumberland, Department of Biostatistics, University of Washington, Seattle, WA (Reading Committee)
2016	Kehao Zhu, Department of Biostatistics, University of Washington (Co-Chair with Andrew Zhou)
2018	Xiaoyue Wang, Department of Biostatistics, University of Washington (Reading Committee)
2019	Qianqian Chen, Department of Biostatistics, University of Washington (Reading Committee)

D. Graduate Student Research Assistants

2014	Rong Fu, Department of Biostatistics, University of Washington
2015-2016	Andrew Spieker, Department of Biostatistics, University of Washington
2016-2017	Yingying Zhuang, Department of Biostatistics, University of Washington
2016-2017	Jason Shao, Department of Biostatistics, University of Washington
2016-2018	Arash Tarkhan, Department of Biostatistics, University of Washington

E. Summer Intern

2019	Wenbo Jin, Department of Statistics, Peking University

F. Reading Course

2013	Jing Fan, Department of Biostatistics, University of Washington (co-supervised reading course with Margaret Pepe)

G. Invited Talks (Local and Network)

2008	"Evaluating and comparing risk prediction markers." Biostatistics and Biomathematics Seminar, Fred Hutchinson Cancer Research Center, Seattle, WA
2011	"ADCC/ADCVI comparison study." RV144 Preliminary Laboratory Project Briefing Meeting, Seattle, WA
2011	"A new logistic regression based framework on standardized markers in biomarker evaluation." Faculty Retreat, Vaccine and Infectious Disease Division, Fred Hutchinson Cancer Research Center
2011	"Design and estimation in evaluation of principal surrogate markers in vaccine trials." Department of Biostatistics, University of Washington, Seattle, WA
2012	"Design and estimation for evaluating the immune surrogates in HIV vaccine trials." VIDD Faculty Seminar, Fred Hutch
2015	"Statistical methods for down-selection of HIV vaccine regimens based on immune response biomarkers." Clinical Trials Affinity Group Seminar, Fred Hutch

2016	"Utilizing biomarkers in cancer and vaccine research." Data Science Workshop, Fred Hutch
2016	"The relationship between immune responses to tetanus vaccine, hepatitis B vaccine and a pox-protein HIV vaccine regimen." HIV Vaccine Trials Network (HVTN) Full Group Meeting, Seattle, WA
2017	"Statistical Analyses for HVTN 097 Trial" HIV Vaccine Trials Network (HVTN) Full Group Meeting, Seattle, WA

EDITORIAL RESPONSIBILITIES

2010-2016	Editorial Board, Journal of Biometrics and Biostatistics
2013-2014	Editorial Board, Clinical Research in HIV/AIDS
2015-	Committee for W.J. Youden Award in Interlaboratory Testing, American Statistical Association
2015-	Associate Editor, Biometrics
2016-2019	Editorial Board, Epidemiology and Prevention Section, Cancer Research
2016	Grant Reviewer for NIH Cancer Biomarker Study Section (CBSS)
2018	Grant Reviewer on NIH review panel for NIGMS MIRA applications
2019	Grant Reviewer on NCI Omibus R03 Review Panel
2020	Grant Reviewer on NIH R21 Review Panel

SPECIAL NATIONAL RESPONSIBILITIES

2009	Master Student Admission Committee, Department of Biostatistics, Columbia University, New York, NY
2009	Grader for 2009 PhD Theory Exam, Department of Biostatistics, Columbia University, New York, NY
2010	Chair, "Spatial Epidemiology and Disease Mapping," Joint Statistical Meetings, Vancouver, BC, Canada
2012	Organizer, "Statistical Methods for Evaluating Surrogate Biomarkers" (invited session), International Chinese Statistical Association Applied Statistics Symposium, Boston, MA
2013-	Reviewer, Publications and Presentations (P & P) Committee, Women's Health Initiative (WHI)
2015	Chair, "Risk Prediction Modeling in Clinical Trials," Joint 24th ICSA Applied Statistics Symposium and 13th Graybill Conference, Fort Collins, CO
2017	Chair, "Challenges and Advances in Statistical Inference for Problems with Nonregularity in the Era of Big Data," Joint Statistical Meetings, Baltimore, MD
2019	Organizer, "Modern statistical methods for biomarker evaluation, disease screening, and personalized medicine with complex data" (invited session) WNAR/IMS Annual Meeting, Portland, OR.

SPECIAL LOCAL RESPONSIBILITIES

2013-	Director, Immune Correlates Affinity Group, Vaccine and Infectious Disease Division, Fred Hutchinson Cancer Research Center, Seattle, WA
2013-2015	Member, Student Admissions Committee, Department of Biostatistics, University of Washington, Seattle, WA
2013	Grader for PhD Applied Exam, Department of Biostatistics, University of Washington
2015	Grader for PhD Applied Exam, Department of Biostatistics, University of Washington
2016	Member, Search Committee, Biostatistician Faculty Position, Vaccine and Infectious Disease Division, Fred Hutch
2018-	Member, HVTN Protocol Committee, HIV Vaccine Trials Network

RESEARCH FUNDING

A. Current

2013-2020	Sponsor: NIH/NIGMS NCE R01 GM106177 Title: Statistical Methods for Selection and Evaluation of Biomarkers Total Costs: $291,090 Role: Principal Investigator
2013-2020	Sponsor: NIH/NIAID UM1 AI068635 Title: Statistical Data and Management Center: HIV Vaccine Trials Network Total Costs: $78,721,187 PI: Peter Gilbert Role: Faculty Statistician
2020-2024	Sponsor: NIH/NIAID R37 AI054165 Title: Statistical Methods in HIV Vaccine Efficacy Trials Total Costs: $1,512,976 (current cycle only) PI: Peter Gilbert Role: Faculty Statistician
2015-2020	Sponsor: NIH/NIAID (Subaward from University of California, Davis, CA) R01 AI118590 Title: How Did a Vaccine Enhance HIV Acquisition? Total Costs: $25,862 PI: Miller Role: Consortium Principal Investigator
2016-2021	Sponsor: NIH/NCI U24 CA086368

Title: Early Detection Research Network: Data Management and Coordinating Center

Total Costs: $4,415,020

PI: Feng

Role: Co-Investigator

2020-2024   Sponsor: NIH/NCI
R01 CA119171

Title: Nutrition and Physical Activity Assessment Study
Total Costs: $669,915

PI: Neuhouser

Role: Co-Investigator

2016-2021   Sponsor: NIH/NCI (subaward from Van Andel Research Institute)
U01 CA152653

Title: Detection and Prognosis of Early-Stage Pancreatic Cancer by Interdependent Plasma Markers

Total Costs: $53,993

PI: Haab
Role: Consortium Principal Investigator

2016-2021   Sponsor: NIH/NCI (subaward from MD Anderson)
U01 CA152653

Title: A Clinical Validation Center for Early Detection of Pancreatic Cancer

PI: Maitra
Role: Consortium Principal Investigator

B. Past

2007-2009   Sponsor: NIH/NHLBI
HHSN268200764314C
Title: Genome-wide Association Study on Breast Cancer within the Women's Health Initiative (WHI)
PI: Prentice
Role: Research Associate

2008-2009   Sponsor: NIH/NIGMS
R01 GM082802
Title: Statistical Methods for Integrative Analysis of Genomics and Proteomics Data
PI: Wang
Role: Research Associate

2010-2012   Sponsor: NIH/NCI
R01 CA152089
Title: Statistical Methods for Evaluating Markers for Treatment Selection

PI: Holly Janes
Role: Co-Investigator

2011-2016   Sponsor: NIH/NCI
P01 CA053996
Title: Statistical Methods for Medical Studies
PI: Prentice
Role: Co-Investigator

2012-2017   Sponsor: NIH/NCI (subaward from Van Andel Research Institute)
U01 CA168896
Title: Targeted Glycomics and Affinity Reagents for Cancer Biomarker Development
PI: Haab
Role: Consortium Principal Investigator

2012-2017   Sponsor: NIH/NIGMS
R01 GM054438
Title: Statistical Methods for Medical Tests and Biomarkers
PI: Margaret Pepe
Role: Co-Investigator

2013-2017   Sponsor: Department of Defense (subcontract from Henry M. Jackson Foundation)
USAMRAA W81XWH
Title: Statistical and Data Management Support for Analysis Related to Vaccine Trial (RV144) and Associated Trials
PI: Peter Gilbert
Role: Faculty Statistician

2015   Sponsor: Women's Health Initiative
Title: WHI-CCC Feasibility Study: Assessing Sodium and Potassium in 24-h and Spot Urines: Feasibility of Calibrating Self-Reported Diet for Use in WHI CVD Association Studies
PI: Tinker
Role: Co-Investigator

2015   Sponsor: Program for Appropriate Technology (subaward from PATH)
Title: Comparison of Commonly Used Diagnostic Tests to Detect Typhoid Fever Using Latent Class Analysis (LCA)
Role: Subaward Principal Investigator

2016-2019   Sponsor: Sanofi Pasteur, Inc.
SRA171204
Title: Bridging Methods Application in Dengue Vaccine Adults Data and Support to the Type C/PreBLA Meeting
Total Costs: $578,884
PI: Peter Gilbert
Role: Faculty Statistician

2016-2019   Sponsor: Sanofi Pasteur, Inc.
             SRA171204

             Title: Bridging Methods Application in Dengue Vaccine Adults Data
             and Support to the Type C/PreBLA Meeting
             Total Costs: $578,884
             PI: Peter Gilbert
             Role: Faculty Statistician

BIBLIOGRAPHY

*A. Publications in Refereed Journals [5 most significant articles marked with **]*

** 1.   **Huang Y**, Sullivan Pepe M, Feng Z. Evaluating the predictiveness of a continuous marker. Biometrics. 2007;63(4):1181-8. PMCID: PMC3059154. [original work]

2.   Woods JS, Martin MD, Leroux BG, DeRouen TA, Leitao JG, Bernardo MF, Luis HS, Simmonds PL, Kushleika JV, **Huang Y**. The contribution of dental amalgam to urinary mercury excretion in children. Environ Health Perspect. 2007;115(10):1527-31. PMCID: PMC2022658. [original work]

3.   **Huang Y**, Schoonmaker JP, Bradford BJ, Beitz DC. Response of milk fatty acid composition to dietary supplementation of soy oil, conjugated linoleic acid, or both. J Dairy Sci. 2008;91(1):260-70. PMID: 18096948. [original work]

4.   Pepe MS, Feng Z, **Huang Y**, Longton G, Prentice R, Thompson IM, Zheng Y. Integrating the predictiveness of a marker with its performance as a classifier. Am J Epidemiol. 2008;167(3):362-8. PMCID: PMC2939738. [original work]

5.   Pepe MS, Zheng Y, Jin Y, **Huang Y**, Parikh CR, Levy WC. Evaluating the ROC performance of markers for future events. Lifetime Data Anal. 2008;14(1):86-113. PMID: 18064569. [original work]

6.   Puschel K, Thompson B, Coronado G, **Huang Y**, Gonzalez L, Rivera S. Effectiveness of a brief intervention based on the '5A' model for smoking cessation at the primary care level in Santiago, Chile. Health Promot Int. 2008;23(3):240-50. PMCID: PMC2724879. [original work]

7.   **Huang Y**, Pepe MS. A parametric ROC model-based approach for evaluating the predictiveness of continuous markers in case-control studies. Biometrics. 2009;65(4):1133-44. PMCID: PMC2794984. [original work]

8.   **Huang Y**, Pepe MS. Biomarker evaluation and comparison using the controls as a reference population. Biostatistics. 2009;10(2):228-44. PMCID: PMC2648906. [original work]

9.   **Huang Y**, Pepe MS. Semiparametric methods for evaluating risk prediction markers in case-control studies. Biometrika. 2009;96(4):991-7. PMCID: PMC3372083. [original work]

10.   **Huang Y**, Schoonmaker JP, Oren SL, Trenkle A, Beitz DC. Calcium salts of CLA improve availability of dietary CLA. Livest Sci. 2009;122(1):1-7. doi: 10.1016/j.livsci.2008.07.010. WOS:000265367800001. [original work]

11.   Prentice RL, **Huang Y**, Hinds DA, Peters U, Pettinger M, Cox DR, Beilharz E, Chlebowski RT, Rossouw JE, Caan B, Ballinger DG. Variation in the FGFR2 gene and the effects of postmenopausal hormone therapy on invasive breast

cancer. Cancer Epidemiol Biomarkers Prev. 2009;18(11):3079-85. PMCID: PMC2783392. [original work]

12.　　Prentice RL, **Huang Y**, Tinker LF, Beresford SA, Lampe JW, Neuhouser ML. Statistical Aspects of the Use of Biomarkers in Nutritional Epidemiology Research. Stat Biosci. 2009;1(1):112-23. PMCID: PMC2762210. [original work]

13.　　Beasley JM, LaCroix AZ, Neuhouser ML, **Huang Y**, Tinker L, Woods N, Michael Y, Curb JD, Prentice RL. Protein intake and incident frailty in the Women's Health Initiative observational study. J Am Geriatr Soc. 2010;58(6):1063-71. PMCID: PMC2924946. [original work]

14.　　**Huang Y**, Hinds DA, Qi L, Prentice RL. Pooled versus individual genotyping in a breast cancer genome-wide association study. Genet Epidemiol. 2010;34(6):603-12. PMCID: PMC3045656. [original work]

15.　　**Huang Y**, Pepe MS. Assessing risk prediction models in case-control studies using semiparametric and nonparametric methods. Stat Med. 2010;29(13):1391-410. PMCID: PMC3045657. [original work]

16.　　**Huang Y**, Pepe MS. Semiparametric methods for evaluating the covariate-specific predictiveness of continuous markers in matched case-control studies. J R Stat Soc Ser C Appl Stat. 2010;59(3):437-56. PMCID: PMC3090216. [original work]

17.　　Prentice RL, **Huang Y**, Hinds DA, Peters U, Cox DR, Beilharz E, Chlebowski RT, Rossouw JE, Caan B, Ballinger DG. Variation in the FGFR2 gene and the effect of a low-fat dietary pattern on invasive breast cancer. Cancer Epidemiol Biomarkers Prev. 2010;19(1):74-9. PMCID: PMC2806599. [original work]

18.　　Gilbert PB, Grove D, Gabriel E, **Huang Y**, Gray G, Hammer SM, Buchbinder SP, Kublin J, Corey L, Self SG. A Sequential Phase 2b Trial Design for Evaluating Vaccine Efficacy and Immune Correlates for Multiple HIV Vaccine Regimens. Stat Commun Infect Dis. 2011;3(1). PMCID: PMC3502884. [original work]

19.　　**Huang Y**, Ballinger DG, Dai JY, Peters U, Hinds DA, Cox DR, Beilharz E, Chlebowski RT, Rossouw JE, McTiernan A, Rohan T, Prentice RL. Genetic variants in the MRPS30 region and postmenopausal breast cancer risk. Genome Med. 2011;3(6):42. PMCID: PMC3218816. [original work]

20.　　**Huang Y**, Fong Y, Wei J, Feng Z. Borrowing Information across Populations in Estimating Positive and Negative Predictive Values. J R Stat Soc Ser C Appl Stat. 2011;60(5):633-53. PMCID: PMC3196635. [original work]

21.　　**Huang Y**, Gilbert PB. Comparing biomarkers as principal surrogate endpoints. Biometrics. 2011;67(4):1442-51. PMCID: PMC3163011. [original work]

22.　　**Huang Y**, Isharwal S, Haese A, Chun FK, Makarov DV, Feng Z, Han M, Humphreys E, Epstein JI, Partin AW, Veltri RW. Prediction of patient-specific risk and percentile cohort risk of pathological stage outcome using continuous prostate-specific antigen measurement, clinical stage and biopsy Gleason score. BJU Int. 2011;107(10):1562-9. PMCID: PMC3082635. [original work]

23.   **Huang Y**, Leroux B. Informative cluster sizes for subcluster-level covariates and weighted generalized estimating equations. Biometrics. 2011;67(3):843-51. PMCID: PMC3137732. [original work]

24.   Pollara J, Hart L, Brewer F, Pickeral J, Packard BZ, Hoxie JA, Komoriya A, Ochsenbauer C, Kappes JC, Roederer M, **Huang Y**, Weinhold KJ, Tomaras GD, Haynes BF, Montefiori DC, Ferrari G. High-throughput quantitative analysis of HIV-1 and SIV-specific ADCC-mediating antibody responses. Cytometry A. 2011;79(8):603-12. PMCID: PMC3692008. [original work]

25.   Prentice RL, **Huang Y**. Measurement error modeling and nutritional epidemiology association analyses. Can J Stat. 2011;39(3):498-509. PMCID: PMC3630080. [original work]

26.   Prentice RL, **Huang Y**, Kuller LH, Tinker LF, Horn LV, Stefanick ML, Sarto G, Ockene J, Johnson KC. Biomarker-calibrated energy and protein consumption and cardiovascular disease risk among postmenopausal women. Epidemiology. 2011;22(2):170-9. PMCID: PMC3033986. [original work]

27.   Prentice RL, Mossavar-Rahmani Y, **Huang Y**, Van Horn L, Beresford SA, Caan B, Tinker L, Schoeller D, Bingham S, Eaton CB, Thomson C, Johnson KC, Ockene J, Sarto G, Heiss G, Neuhouser ML. Evaluation and comparison of food records, recalls, and frequencies for energy and protein assessment by using recovery biomarkers. Am J Epidemiol. 2011;174(5):591-603. PMCID: PMC3202154. [original work]

28.   Tinker LF, Sarto GE, Howard BV, **Huang Y**, Neuhouser ML, Mossavar-Rahmani Y, Beasley JM, Margolis KL, Eaton CB, Phillips LS, Prentice RL. Biomarker-calibrated dietary energy and protein intake associations with diabetes risk among postmenopausal women from the Women's Health Initiative. Am J Clin Nutr. 2011;94(6):1600-6. PMCID: PMC3252553. [original work]

29.   Bonsignori M, Pollara J, Moody MA, Alpert MD, Chen X, Hwang KK, Gilbert PB, **Huang Y**, Gurley TC, Kozink DM, Marshall DJ, Whitesides JF, Tsao CY, Kaewkungwal J, Nitayaphan S, Pitisuttithum P, Rerks-Ngarm S, Kim JH, Michael NL, Tomaras GD, Montefiori DC, Lewis GK, DeVico A, Evans DT, Ferrari G, Liao HX, Haynes BF. Antibody-dependent cellular cytotoxicity-mediating antibodies from an HIV-1 vaccine efficacy trial target multiple epitopes and preferentially use the VH1 gene family. J Virol. 2012;86(21):11521-32. PMCID: PMC3486290. [original work]

30.   Dai JY, Logsdon BA, **Huang Y**, Hsu L, Reiner AP, Prentice RL, Kooperberg C. Simultaneously testing for marginal genetic association and gene-environment interaction. Am J Epidemiol. 2012;176(2):164-73. PMCID: PMC3499112. [original work]

31.   Genesca M, Ma ZM, Wang Y, Assaf B, Qureshi H, Fritts L, **Huang Y**, McChesney MB, Miller CJ. Live-attenuated lentivirus immunization modulates innate immunity and inflammation while protecting rhesus macaques from vaginal simian immunodeficiency virus challenge. J Virol. 2012;86(17):9188-200. PMCID: PMC3416105. [original work]

32.   **Huang Y**, Ballinger DG, Stokowski R, Beilharz E, Robinson JG, Liu S, Robinson RD, Henderson VW, Rossouw JE, Prentice RL. Exploring the interaction between SNP genotype and postmenopausal hormone therapy

effects on stroke risk. Genome Med. 2012;4(7):57. PMCID: PMC3580413. [original work]

33. **Huang Y**, Gilbert PB, Janes H. Assessing treatment-selection markers using a potential outcomes framework. Biometrics. 2012;68(3):687-96. PMCID: PMC3417090. [original work]

34. **Huang Y**, **Huang Y**, Moodie Z, Li S, Self S. Comparing and combining data across multiple sources via integration of paired-sample data to correct for measurement error. Stat Med. 2012;31(28):3748-59. PMCID: PMC4087038. [original work]

35. **Huang Y**, Wang P. Network Based Prediction Model for Genomics Data Analysis. Stat Biosci. 2012;4(1):47-65. PMCID: PMC3859188. [original work]

36. Montefiori DC, Karnasuta C, **Huang Y**, Ahmed H, Gilbert P, de Souza MS, McLinden R, Tovanabutra S, Laurence-Chenine A, Sanders-Buell E, Moody MA, Bonsignori M, Ochsenbauer C, Kappes J, Tang H, Greene K, Gao H, LaBranche CC, Andrews C, Polonis VR, Rerks-Ngarm S, Pitisuttithum P, Nitayaphan S, Kaewkungwal J, Self SG, Berman PW, Francis D, Sinangil F, Lee C, Tartaglia J, Robb ML, Haynes BF, Michael NL, Kim JH. Magnitude and breadth of the neutralizing antibody response in the RV144 and Vax003 HIV-1 vaccine efficacy trials. J Infect Dis. 2012;206(3):431-41. PMCID: PMC3392187. [original work]

37. Pepe MS, Fan J, Seymour CW, Li C, **Huang Y**, Feng Z. Biases introduced by choosing controls to match risk factors of cases in biomarker research. Clin Chem. 2012;58(8):1242-51. PMCID: PMC3464972. [original work]

38. Qureshi H, Ma ZM, **Huang Y**, Hodge G, Thomas MA, DiPasquale J, DeSilva V, Fritts L, Bett AJ, Casimiro DR, Shiver JW, Robert-Guroff M, Robertson MN, McChesney MB, Gilbert PB, Miller CJ. Low-dose penile SIVmac251 exposure of rhesus macaques infected with adenovirus type 5 (Ad5) and then immunized with a replication-defective Ad5-based SIV gag/pol/nef vaccine recapitulates the results of the phase IIb step trial of a similar HIV-1 vaccine. J Virol. 2012;86(4):2239-50. PMCID: PMC3302390. [original work]

39. Zhang Z, **Huang Y**. A Linear Regression Framework for the Receiver Operating Characteristic (ROC) Curve Analysis. J Biom Biostat. 2012;3(2):137. PMCID: PMC3836285. [original work]

40. Beasley JM, Larson J, LaCroix AZ, Neuhouser ML, Tinker LF, Jackson R, **Huang Y**, Snetselaar L, Eaton C, Prentice RL. Associations Between Biomarker-Calibrated Protein Intake and Bone Health in the Women's Health Initiative. Faseb Journal. 2013;27(1_MeetingAbstracts):249.2. WOS:000319883500102. [original work]

41. Duerr A, **Huang Y**, Buchbinder S, Coombs RW, Sanchez J, del Rio C, Casapia M, Santiago S, **Huang Y**, Gilbert P, Corey L, Robertson MN. Reply to Richie and Villasante. J Infect Dis. 2013;207(4):690-2. PMCID: PMC4200031. [original work]

42. Feng Z, Kagan J, Pepe M, Thornquist M, Ann Rinaudo J, Dahlgren J, Krueger K, Zheng Y, Patriotis C, **Huang Y**, Sorbara L, Thompson I, Srivastava S. The Early Detection Research Network's Specimen reference sets: paving the way for rapid evaluation of potential biomarkers. Clin Chem. 2013;59(1):68-74. PMCID: PMC3652317. [original work]

** 43. **Huang Y**, Gilbert PB, Wolfson J. Design and estimation for evaluating principal surrogate markers in vaccine trials. Biometrics. 2013;69(2):301-9. PMCID: PMC3713795. [original work]

44. **Huang Y**, Pepe MS, Feng Z. Logistic Regression Analysis with Standardized Markers. Ann Appl Stat. 2013;7(3). PMCID: PMC3817965. [original work]

45. Mossavar-Rahmani Y, Tinker LF, **Huang Y**, Neuhouser ML, McCann SE, Seguin RA, Vitolins MZ, Curb JD, Prentice RL. Factors relating to eating style, social desirability, body image and eating meals at home increase the precision of calibration equations correcting self-report measures of diet using recovery biomarkers: findings from the Women's Health Initiative. Nutr J. 2013;12:63. PMCID: PMC3658913. [original work]

46. Prentice RL, Neuhouser ML, Tinker LF, Pettinger M, Thomson CA, Mossavar-Rahmani Y, Thomas F, Qi L, **Huang Y**. An exploratory study of respiratory quotient calibration and association with postmenopausal breast cancer. Cancer Epidemiol Biomarkers Prev. 2013;22(12):2374-83. PMCID: PMC3864792. [original work]

47. Prentice RL, Pettinger M, Tinker LF, **Huang Y**, Thomson CA, Johnson KC, Beasley J, Anderson G, Shikany JM, Chlebowski RT, Neuhouser ML. Regression calibration in nutritional epidemiology: example of fat density and total energy in relationship to postmenopausal breast cancer. Am J Epidemiol. 2013;178(11):1663-72. PMCID: PMC3842904. [original work]

48. Prentice RL, Tinker LF, **Huang Y**, Neuhouser ML. Calibration of self-reported dietary measures using biomarkers: an approach to enhancing nutritional epidemiology reliability. Curr Atheroscler Rep. 2013;15(9):353. PMCID: PMC3832356. [original work]

49. Beasley JM, LaCroix AZ, Larson JC, **Huang Y**, Neuhouser ML, Tinker LF, Jackson R, Snetselaar L, Johnson KC, Eaton CB, Prentice RL. Biomarker-calibrated protein intake and bone health in the Women's Health Initiative clinical trials and observational study. Am J Clin Nutr. 2014;99(4):934-40. PMCID: PMC3953886. [original work]

50. **Huang Y**, Fong Y. Identifying optimal biomarker combinations for treatment selection via a robust kernel method. Biometrics. 2014;70(4):891-901. PMCID: PMC4277554. [original work]

51. **Huang Y**, Van Horn L, Tinker LF, Neuhouser ML, Carbone L, Mossavar-Rahmani Y, Thomas F, Prentice RL. Measurement error corrected sodium and potassium intake estimation using 24-hour urinary excretion. Hypertension. 2014;63(2):238-44. PMCID: PMC4070598. [original work]

52. Janes H, Brown MD, **Huang Y**, Pepe MS. An approach to evaluating and comparing biomarkers for patient treatment selection. Int J Biostat. 2014;10(1):99-121. PMCID: PMC4341986. [original work]

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B. Book Chapters

1. Mossavar-Rahmani, Y., Tinker, L. F., Neuhouser, M. L., **Huang, Y.** , Shaw, P., Beasley, J. M., Di, C., Zheng, C., Li, W., Johnson, K., and Prentice, R. L. Women's Health Initiative Dietary Modification Trial: update and application of biomarker calibration to self-report measures of diet and physical activity, *Wiley*.

C. Published Software

1. CRAN R package **rld**: Analyze and Design Repeated Low-Dose Challenge Experiments. Bin Yao, Ying Huang, and Chaeryon Kang. https://cran.r-project.org/
2. R package **tsm**: Assessing Treatment-Selection Markers using a Potential Outcomes Framework. http://research.fhcrc.org/huang/en/software.html
3. R package **aucm** for combining biomarker nonlinearly for classification using the area under the ROC curve. https://cran.r-project.org/
4. R code for identifying optimal biomarker combinations for treatment selection using kernel based methods http://research.fhcrc.org/huang/en/software.html
5. R code for implementing the W-SRAMP-L1 estimator for selecting and combining biomarkers in deriving personalized treatment-selection rule. http://research.fhcrc.org/huang/en/software.html
6. R code for down-selection of treatment regimens based on multiple endpoints. http://research.fhcrc.org/huang/en/software.html
7. R code for assessing the incremental value of new biomarkers based on OR rules http://research.fhcrc.org/huang/en/software.html
8. R code for identification of the optimal treatment regimen in the presence of missing covariates http://research.fhcrc.org/huang/en/software.html

D. Other Publications

1. Gray, G.E., Andersen-Nissen, E., Grunenberg, N., **Huang, Y.,** Roux, S., Laher, F., Innes, C., Gu, N., DiazGranados, C., Phogat, S., Lee, C., Swann, E., Kim, J., O'Connell, R., Michael, N., Flach, B., DeRosa, S., Frahm, N., Morris, L., Montefiori, D., Gilbert, P., Tomaras, G., McElrath, J., Corey, L. (2014) HVTN 097: Evaluation of the RV144 vaccine regimen in HIV uninfected South Africa adults. *AIDS Research and Human Retroviruses*, 30, Suppl 1: A33-4. [conference proceedings, HIV Research for Prevention (HIVR4P) Conference]
2. **Huang, Y**; Tomaras, G; Andersen-Nissen, E; Dintwe, O; Morris, L; Grunenberg, N; Issacs, A; DiazGranados, C; Sinangil, F; Laher, F; Swann, E; DeRosa, S; Ferrari, G; Montefiori, D; Gilbert, P; McElrath, J; Corey, L; Gray, G; HVTN097 (2016). The Relationship between Immune Responses to Tetanus Vaccine, Hepatitis B Vaccine and a Pox-protein HIV Vaccine Regimen. *AIDS Research and Human Retroviruses*,. Vol. 32. 76-76. [conference proceedings, HIV Research for Prevention (HIVR4P) Conference]

E. Manuscripts Submitted

1. Zheng, C., Zhang, Y., **Huang, Y**., and Prentice, R. (2020) Biomarker development for use in regression calibration. *Submitted*.
2. **Huang, Y., Cho, J., and Fong, Y.** (2020) Threshold-based subgroup testing in logistic regression models. Revision invited by *Journal of Royal Statistical Society C.*
3. Lindsay Carpp, Youyi Fong, Matthew Bonaparte, Zoe Moodie, Michal Juraska, **Ying Huang**, Brenda Price, Yingying Zhuang, Jason Shao, Lingyi Zheng,

Laurent Chambonneau, Robert Small, Saranya Sridhar, Carlos DiazGranados, and Peter Gilbert. (2019) Microneutralization Assay Titer Correlates Analysis in Two Phase 3 Trials of the CYD-TDV Tetravalent Dengue Vaccine in Asia and Latin America. Revision submitted to *PLOS ONE*.

4. **Ying Huang**, Yingying Zhuang, and Peter B. Gilbert (2020) Sensitivity analysis for evaluating principal surrogate endpoints relaxing the equal early clinical risk assumption. Submitted to *Biometrics*.

5. Tao Yang, **Ying Huang**, and Youyi Fong. (2020) Change point inference in the presence of missing covariate for principal surrogate evaluation in vaccine trials. Revision under review in *Biometrika*.

6. Ross L Prentice, PhD; Mary Pettinger, MS; Marian L Neuhouser, PhD; Daniel Raftery, PhD; Cheng Zheng, PhD; Nagana Gowda; **Ying Huang**, PhD; Lesley F Tinker, PhD; Barbara V Howard, PhD; JoAnn E Manson, MD; Robert Wallace, MD; Yasmin Mossavar-Rahmani, PhD; Karen C Johnson, MD; Johanna W Lampe, PhD. (2020) Biomarker-calibrated macronutrient intake and chronic disease risk among postmenopausal women, submitted to *AJCN*.

F. Abstracts

1. Veltri, R.W., Isharwal, S., and **Huang, Y.** (2010) Beyond the Abstract – Prediction of patient-specific risk and percentile cohort risk of pathological stage outcome using continuous prostate-specific antigen measurement, clinical stage, and biopsy Gleason score. *UroToday*. http://www.urotoday.com/index. php?option=com.content&task=view&id= 2233774&Itemid=3341.

2. Huang, Yunda, **Huang, Ying**, Moodie, Zoe, and Li, Sue. (2011) Comparing and combining data across laboratories after correcting for inter-laboratory variation via integration of paired-sample data. ASA Biopharmaceutical Section FDA/Industry Statistics Workshop, Washington D. C.

3. Leroux, Brian G., **Huang, Ying.** (2011) Informative cluster sizes for sub-cluster level covariates and weighted generalized estimating equations. WNAR/IMS Annual Meeting, Cal Poly – San Luis Obispo, CA.

4. Michael D. Alpert, Jackson D. Harvey, William J. Niedermyer, **Ying Huang**, Daryl Morris, Linda Harris, Hongmei Gao, David Montefiori, Supachai Rerks-Ngarm, Nelson L. Michael, Jerome H. Kim and David T. Evans. (2011) ADCC titers to HIV-infected cells are detectable in the majority of vaccine recipients in the RV144 trial. AIDs Vaccine Meeting, Bangkok, Thailand.

5. Holly Janes, Margaret S. Pepe**, Ying Huang**. (2011) Designing studies to evaluate biomarkers for selecting patient treatment. Conference on risk assessment and evaluation of predictions. Silver Spring, MD.

6. Yasmin Mossavar-Rahmani, Lesley F. Tinker, **Ying Huang**, Marian L. Neuhouser, Susan McCann, Rebecca Seguin, Mara Vitolins, J. David Curb, Ross L. Prentice (2012) Psychosocial factors in dietary assessment: biomarkers and self-report in the Women's Health Initiative. The 8th International Conference on Diet and Activity Methods. Rome, Italy. Poster Presentation.

7. Spearman Paul, Tomara Georgia, Montefiori David, **Ying Huang**, Ahmed Hasan, Elizaga Marnie, Hural John, McElrath Julie, Ouedraogo Laissa, Pensiero Michael, Butler Chris, Kalams Spyros, Overton Edgar Turner, Barnett Susan, and the NIH/NIAID HIV Vaccine Trials Network. (2012) Rapid development of cross-clade neutralizing antibody responses after clade B gp120/gp140 protein priming and clade C gp140 protein boosting. AIDS VACCINE, Boston, USA.

8. Benjamin Logsdon, James Dai, **Ying Huang**, Li Hsu, Alexander P. Reiner, Ross Prentice, Charles L Kooperberg (2012). Joint Statistical Meeting (JSM), San Diego, CA.

9. Shuxin Yin, Youyi Fong, and **Ying Huang**. (2012) Penalized AUC maximization with kernel property. Joint Statistical Meeting (JSM), San Diego, CA, USA.

10. Chaeryon Kang and **Ying Huang**. (2013) A discrete survival model with random effect for designing and analyzing repeated low-dose challenge studies in HIV vaccine research. Eastern North American Region (ENAR)/International Biometric Society (IBS) Annual Meeting, Orlando, FL.

11. Jeannette M Besley, Joseph Larson, Andrea Z LaCroix, Marian L Neuhouser, Lesley F Tinker, Rebecca Jackson, **Ying Huang**, Linda Snetselaar, Charles Eaton, Ross L Prentice. (2013) Associations between biomarker-calibrated protein intake and bone health in the Women's Health Initiative. Experimental Biology Meeting, Boston, MA.

12. Chaeryon Kang**, Ying Huang**, and Michael Kosorok. (2013) Identifying immune response combinations associated with heterogeneous infectious risk in HIV vaccine studies. Joint Statistical Meeting (JSM), Montreal, Quebec, Canada.

13. Jeannette M Besley, Joseph Larson, Andrea Z LaCroix, Marian L Neuhouser, Lesley F Tinker, Rebecca Jackson, **Ying Huang**, Linda Snetselaar, Charles Eaton, Ross L Prentice. (2013) Associations between biomarker-calibrated protein intake and bone health in the Women's Health Initiative. The American Society for Bone and Mineral Research Annual Meeting, Baltimore, Maryland.

14. Peter B Gilbert, Erin E Gabriel, **Ying Huang**, and Ivan Chan. (2013) Assessment of immune correlates of protection via the vaccine efficacy curve: application to the ZEST trial. Joint Statistical Meeting, Montreal, Quebec, Canada.

15. Shibasish Dasgupta and **Ying Huang**. (2014) A bayesian approach to design future studies for comparing biomarkers. Frontiers of Hierarchical Modeling in Observational Studies, Complex Surveys and Big Data. College Park, Maryland, USA.

16. Soyoung Kim and **Ying Huang**. (2014) Methods for covariate adjustment in combining multiple markers. Joint Statistical Meeting, Boston, Massachusetts.

17. Peter Gilbert and **Ying Huang**. (2014) Immune-bridging formula for estimating vaccine efficacy in a new setting, re-calibrating on baseline covariates, post-

baseline surrogate endpoints, and genotypes/serotypes of circulating pathogens. Joint Statistical Meeting, Boston, Massachusetts.

18. Laura Carbone, Karen Johnson, **Ying Huang**, Mary Pettinger, Fridtjof Thomas, Jane Cauley, Carolyn Crandall, Lesley Tinker, Meryl Susan LeBoff, Jean Wactawski-Wende, Monique Bethel, Wenjun Li, Ross Prentice. (2015) Sodium intake and osteoporosis. Findings from the Women's Health Initiative. ACR/ARHP Annual Meeting. San Francisco, CA.

19. Yunda Huang**, Ying Huang**, Zoe Moodie, Sue Li, Steve Self. (2015) Comparing and Combining Data Across Multiple Sources via Integration of Paired-Sample Data to Correct for Measurement Error. Joint Statistical Meeting, Seattle, WA.

20. Soyoung Kim and **Ying Huang**. (2015) Estimation to assess surrogate marker in vaccine trials. Joint Statistical Meeting, Seattle, WA.

21. Tang, H., Partyka, K., Kletter, D., Hsueh, P., **Huang, Y.,** Brand, R.E., and Haab, B.B. (2015) New biomarkers for the detection of early-stage and CA19-9-low pancreatic cancer. 46th Annual Meeting of the American Pancreatic Association, San Diego, CA.

22. Sayan Dasgupta and **Ying Huang** (2016) Comparing the surrogacy of multiple vaccine-induced immune response biomarkers in HIV prevention. Eastern North American Region (ENAR)/International Biometric Society (IBS) Annual Meeting, Austin, TX.

23. Andrew Spieker and **Ying Huang** (2016) Accounting for heterogeneity when evaluating surrogate endpoint in a discrete survival model. Eastern North American Region (ENAR)/International Biometric Society (IBS) Annual Meeting, Austin, TX.

24. C. J. Miller, **Y. Huang**, Z. M. Ma, L. Fritts, J. S. Gach, D. N. Forthal (2016) Non-neutralizing antibodies reduce the rate of SIVmac251 infection following low-dose repeated penile challenge. HIV Vaccine Keystone Symposia, Olympic Valley, CA.

25. Lesley Tinker, **Ying Huang**, Marian Neuhouser, Johanna Lampe, Ross Prentice (2016) Feasibility of using spot urines for WHI CVD Association Studies: AS525 Feability Study 2105. WHI Investigator Meeting, Columbus, Ohio.

26. Sayan Dasgupta, **Ying Huang** (2016) Selecting biomarkers for building optimal treatment selection rules using kernel machines. International Biometric Conference, Victoria, BC, Canada.

27. Yingying Zhuang, **Ying Huang**, and Peter Gilbert (2016) Evaluating Principal Surrogate Markers with A Pseudoscore Approach and Simultaneous Inference. International Biometric Conference, Victoria, BC, Canada.

28. Kazufumi Honda, Michimoto Kobayashi, Takuji Okusaka, Chigusa Morizane, Jo Ann Rinaudo, **Ying Huang**, Tracey Marsh, Shoji Nakamori, Masashi Shimahara, Takaaki Ueno, Akihiko Tsuchida, Naohiro Sata, Tatsuya Ioka, Tomoo Kosuge,

Yohichi Yasunami, Masaru Yoshida, Ken Azuma, Sudhri Srivastava, Tesshi Yamada. Plasma biomarker for detection of early-stage pancreatic cancer and risk factors for pancreatic malignancy using antibodies for apolipoprotein-AII isoforms. American Society of Clinical Oncology (ASCO) Annual Meeting, Chicago, IL, 2016.

29. Lesley Tinker, **Ying Huang**, Marian L Neuhouser, Johanna W Lampe, Xiaoling Song, Ross L Prentice. Assessing sodium and potassium in 24-h and spot urines: feasibility of calibrating self-reported diet. Experimental Biology 2016 meeting, San Diego, CA.

30. Kazufumi Honda, Michimoto Kobayashi, Takuji Okusaka, Chigusa Morizane, Jo Ann Rinaudo, **Ying Huang**, Tracey Marsh, Shoji Nakamori, Masashi Shimahara, Takaaki Ueno, Akihiko Tsuchida, Naohiro Sata, Tatsuya Ioka, Tomoo Kosuge, Yohichi Yasunami, Masaru Yoshida, Takeshi Azuma, Sudhir Srivastava, Tesshi Yamada. (2016) Plasma biomarker for detecting early stage pancreatic cancer by Apolipoprotein-A2 isoforms. The 20th International Meeting of Pancreatology, Sendai, Japan.

31. Karen Johnson, Laura Carbone, **Ying Huang**, Mary Pettinger, Fridtjof Thomas, Jane Cauley, Carolyn Crandall, Lesley Tinker, Meryl Leboff, Monique Bethel, Jean Wactawski-Wende, Wenjun Li, Ross Prentice. (2016) Sodium intake and osteoporosis. Findings from the Women's Health Initiative. WHI Investigator Meeting, Columbus, Ohio.

32. Xiaoling song, **Ying Huang**, Marian L. Neuhouser, Lesley F. Tinker, Mara Z. Vitolins, Juned Siddique, Ross L. Prentice, Johanna W. Lampe. (2017) Dietary long-chain fatty acids and carbohydrate biomarkers evaluation in a controlled feeding study in women from the Women's Health Initiative Cohort. Experimental Biology, Chicago, MD.

33. Daniel Barnett, Ying Liu, Katie Partyka, Galen Hostetter, Herbert Zeh, Aatur D. Singhi, **Ying Huang**, Richard Drake, Randall E. Brand, and Brian B. Haab. (2017) A new glycan biomarker for pancreatic cancer complements CA19-9 and identifies a distinct subpopulation of cancer cells. American Association for Cancer Research (AACR) Annual Meeting, Washington, DC.

34. Lesley Tinker, **Ying Huang**, Marian Neuhouser, Johanna Lampe, Xiaoling Song, Linda Van Horn, Laura Carbone, Karen Johnson, JoAnn Manson, Yasmin Mossavar-Rahmani, Simin Liu, Linda Snetselaar, Ross Prentice. (2017) Biomarker calibration equations for assessing dietary sodium & potassium intake in a controlled feeding study. WHI Investigator Meeting.

35. Zoe Moodie, Michal Juraska, **Ying Huang**, Yingying Zhuang, Youyi Fong, Steven G. Self, Laurent Chambonneau, Robert Small, Nicholas Jackson, Fernando Noriega, Peter B. Gilbert. (2017) Correlates of risk and protection for CYD-TDV, the first licensed dengue vaccine in endemic countries. 66th Annual Meeting of

American Society of Tropical Medicine & Hygiene (ASTMH), Baltimore, Maryland.

36. Peter B. Gilbert, **Ying Huang**, Michal Juraska, Zoe Moodie, Youyi Fong, Alexander Luedtke, Yingying Zhuang, Jason Shao, Lindsay Carpp, Nicholas Jackson, Laurent Chambonneau, Alain Bouckenooghe, Betzana Zambrano, Carina Frago, Sophie Pallardy, Fernando Noriega. (2017) Bridging efficacy of a tetravalent dengue vaccine from Children/Adolescents to adults in high endemic countries based on neutralizing antibody response. 66th Annual Meeting of American Society of Tropical Medicine & Hygiene (ASTMH), Baltimore, Maryland.

37. Lu Wang, **Ying Huang** (2017) Evaluating classification performance of biomarkers in two-phase case-control studies. JSM 2017, Baltimore, MD.

38. Juhee Cho, **Ying Huang** (2017) Test for a change point in the linear combination of risk predictors. JSM 2017, Baltimore, MD.

39. Youyi Fong, Chongzhi Di, **Ying Huang**, Peter Gilbert (2017) Model-robust inference for continuous threshold regression models. JSM 2017, Baltimore, MD.

40. Tao Yang and **Ying Huang** (2018) Change point inference in presence of missing covariate. ENAR 2018, Atlanta, GA.

41. Johanna W Lampe, Cheng Zheng, Xiaoling Song, Daniel Raftery, Nagana Gowda, Danijel Djukovic, **Ying Huang**, Shirley AA Beresford, Lesley F Tinker, Ross L Prentice, Marian L Neuhouser.Metabolomics approach to characterizing total carbohydrate intake in a controlled feeding study in participants from the Women's Health Initiative (WHI) cohort. 14th International Conference of the Metabolomics Society, June 24-28, 2018, Seattle, WA

42. Lamar Ballweber Fleming, Erica Andersen-Nissen, Andrew Fiore-Gartland, Anneta F. Naidoo, Lindsay N. Carpp, Michael S. Harper, **Ying Huang**, Glenda Gray, M. Juliana McElrath and NIAID HIV Vaccine Trials Network. Systems analysis of innate and adaptive immune responses to the RV144 ALVAC HIV vaccine in a South African HIV uninfected cohort. HIVR4P 2018, Madrid, Spain.

43. Ben Staal, Daniel Barnett, Zonglin He, **Ying Huang**, Katie Partyka, Aatur Singhi, Richard Drake, Anirban Maitra, Randall Brand, Brian Haab. The sTRA glycan is complementary to CA19-9 as a serological biomarker of pancreatic cancer. Human Proteome Organization 2018, Orlando, FL.

44. Yiwen Zhang, Cheng Zheng, **Ying Huang**, Ross Prentice. An objective biomarker development for regression calibration. 2018 ICSA Midwest Chapter Meeting.Glenview, IL.

OTHER

A. Invited Talks (National and International)
2007   "Evaluating the predictiveness of continuous biomarkers in case-control studies." WNAR/IMS annual meeting, Irvine, CA.

2008 "Borrowing information across populations in evaluating risk prediction markers." Brown University Center of Statistical Sciences, Providence, RI.

2010 "Assessing the capacity of biomarkers to predict individual-level treatment effect." WNAR/IMS Annual Meeting. Seattle, WA.

2010 "Assessing the capacity of biomarkers to predict individual-level treatment effect." University of Wisconsin Madison, Department of Biostatistics and Bioinformatics Seminar, Madison, WI.

2010 "Comparing Biomarkers As Principal Surrogate Endpoints." First Joint Biostatistics Symposium. Beijing, China.

2012 "Sampling design optimization and estimation for evaluating principal surrogate markers in HIV vaccine trials". ICSA Applied Statistical Symposium, Boston, MA.

2012 "Design and estimation in evaluation of principal surrogate marker in vaccine trials". Joint Statistical Meetings, San Diego, CA.

2013 "Personalized evaluation of biomarker value: a cost-benefit perspective." Eastern North American Region (ENAR)/International Biometric Society (IBS) Annual Meeting, Orlando, FL.

2013 "Combining biomarkers to maximize treatment selection benefit". Joint Statistical Conference by the International Chinese Statistical Association (ICSA) and the International Society for Biopharmaceutical Statistics (ISBS), Washington, D.C.

2013 "Identifying optimal biomarker combinations for treatment selection through randomized controlled trials". Department of Biostatistics, MD Anderson Cancer Center, Houston, TX.

2014 "Identifying optimal biomarker combinations for treatment selection through randomized controlled trials". 7th Annual Conference on Statistical Issues in Clinical Trials, Department of Biostatistics and Epidemiology, University of Pennsylvania, Philadelphia, PA.

2014 "HVTN correlates program: down selection". HVTN Full Group Meeting, Washington, DC.

2015 "Personalized evaluation of biomarker value in risk prediction and treatment selection: a cost-benefit perspective". Joint Statistical Meetings, Seattle, WA.

2015 "Identifying optimal biomarker combinations for treatment selection through randomized controlled trials". Joint 24th ICSA Applied Statistics Symposium and 13th Graybill Conference.

2016 "Evaluation of Immune Biomarkers as Principal Surrogate Endpoints in Vaccine Trials under a Multi-phase Sampling Framework". 2016 IISA International Conference on Statistics, Corvallis, OR.

2016 "Identifying Optimal Biomarker Combinations for Treatment Selection Using Data from Randomized Controlled Trials", 22nd International Conference on Computational Statistics (COMPSTAT 2016), Oviedo, Spain.

2016 "Bridging overall vaccine efficacy to a new setting utilizing immune correlates of protection". Center for Statistics, Southwestern University of Finance and Economics, Chengdu, Sichuan, China.

2017 "Predicting Overall Vaccine Efficacy in a New Setting by Re-Calibrating Baseline Covariate and Immune Response Endpoint Effect Modifiers of Genotype-Specific Vaccine Efficacy". 5th Annual IDM Modeling Symposium, Bellevue, WA.

2017 "Select biomarkers for building optimal treatment selection rules using kernel machines". IMS China International Conference on Statistics and Probability, Nanning, Guangxi, China.

2017 "Evaluation of subgroup-specific incremental value of new markers for treatment selection". Joint Statistical Meetings, Baltimore, MD.

2017 "Inferential procedures for the use of biomarkers in treatment selection". Department of Statistics, University of California, Riverside, CA.

2017 "Inferential procedures for the use of biomarkers in treatment selection". Department of Biostatistics, University of Pittsburgh, Pittsburgh, PA.

2018 Discussant for "Estimation and evaluation of linear individualized treatment rules to guarantee performance", International Biometrics Society Journal Club

2018 "Identification of Optimal Biomarker Combination for Treatment-Selection in the Presence of Missing Data". ICSA Applied Statistics Symposium, New Brunswick, NJ.

2018 "Evaluating principal surrogate markers in vaccine trials in the presence of multiphase sampling". ICSA China Conference with the Focus on Data Science, Qingdao, China

2018 "Robust combination of biomarkers for classification with covariate adjustment". Joint Statistical Meetings, Vancouver, BC, Canada.

2018 "Identification of the optimal treatment regimen in the presence of missing covariates". The First Symposium on Biostatistics and Data Science, Department of Biostatistics, Peking University, Beijing, China.

2019 "Inferential procedures for assessing the incremental value of new biomarkers based on logic rules". Department of Statistics, Penn State University, State College, PA.

2019 "Inferential procedures for assessing the incremental value of new biomarkers based on logic rules". WNAR/IMS Annual Meeting, Portland, OR.

2019 "Inferential procedures for assessing the incremental value of new biomarkers based on logic rules" (topic contributed). Joint Statistical Meetings, Denver, CO.

2019 "Threshold-based subgroup testing in logistic regression models", the 11th ICSA International Conference, Hangzhou, China.

B. Contributed Presentations (Local, National, International)

2006 Estimating the predictiveness curve in case-control studies. Poster presented at the Joint Statistical Meetings, Seattle, WA.

2006 Evaluating continuous risk prediction markers in case-control studies. Poster presented at the XXIII International Biometric Conference, Montréal, Québec, Canada.

2007 Evaluating the predictive capacity of a continuous biomarker. Joint Statistical Meetings, Salt Lake City, UT.

2008   Borrowing information across populations in evaluating risk prediction markers. WNAR/IMS annual meeting, Davis, CA.

2008   Meta-analysis method for evaluating population-specific PPV and NPV. Poster presented at the 5th EDRN Scientific Workshop, Bethesda, MD.

2010   Comparing biomarkers as principal surrogate endpoints. Joint Statistical Meetings, Vancouver, BC, Canada.

2010   Comparing biomarkers as principal surrogate endpoints. Young Investigator Workshop, Vancouver, BC, Canada.

2010   Logistic regression based framework for borrowing information across population in evaluating risk prediction markers. ENAR Annual Meeting, New Orleans, LA.

2012   Design and Estimation for Principal Surrogate Markers in Vaccine Trials. XXVIth International Biometric Conference, Kobe, Japan.

2013   Robust Kernel Method for Identifying Marker Combinations in Treatment Selection, The Ninth ICSA International Conference, Hong Kong.

2014   Statistical Methods for Selection of HIV Vaccine Regimens based on Immune Response Biomarkers. WNAR/IMS Conference, Honolulu, HI.

2015   Statistical Methods for Down-Selection of HIV Vaccine Regimens based on Immune Response Biomarkers. IMS-China International Conference on Statistics and Probability. Kunming, Yunnan, China.

2016   Evaluating and comparing biomarkers in two-phase case-control studies. International Biometric Conference (IBC), Victoria, BC, Canada.

2016   The relationship between immune responses to tetanus vaccine, hepatitis B vaccine and a pox-protein HIV vaccine regimen. HIV Research For Prevention Conference (HIVR4P), Chicago, IL.

2018   Validating multiple EDRN PDAC biomarkers on a common testing set. The 33rd EDRN Steering Committee Meeting, Cambridge, MA.

2018   A meta-analysis to evaluate the relationship between serum neutralizing antibody titer and protection against SHIV challenge in nonhuman primates. HIV Research for Prevention Conference (HIVR4P), Madrid, Spain.