

MICHAEL D. SWARTZ, PhD

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A. BACKGROUND

1. Education:

PhD	Statistics	2004	Rice University, Houston, TX
MA	Statistics	2002	Rice University, Houston, TX
BA	Psychology	1997	Trinity University, San Antonio, TX
BS	Mathematics	1997	Trinity University, San Antonio, TX

a. Post Doctoral Fellowships:

Cancer Prevention	Mentor:	2006-2007	U.T. M. D. Anderson Cancer Center
Biostatistics, Bioinformatics and Nutrition	Mentor: Marina Vannucci	2004-2006	Texas A&M University

2. Honors and Awards:

- Teaching Statistics For the Health Sciences Section of the American Statistical Association Outstanding Teaching Award 2016
- UTSPH Annual Award for Excellence in Teaching for 2016
- 1st runner up for John P. McGovern Award for Outstanding Teaching 2015
- UTSPH nominee for Regents of Texas Outstanding Teacher Award, 2015
- UTSPH nominee for the Regents of Texas Outstanding Teacher Award, 2014
- 1st runner up for John P. McGovern Award for Outstanding Teaching, 2013
- American Statistical Association Chapter service award 2013.
- Biometrics Showcase for outstanding publication in Biometrics 2004-2006, 2006
- Chairman's award to Graduate Students for Service to Department of Statistics, Rice University, 2003

3. Professional Experience:

2016-present	Associate Professor, Department of Biostatistics, School of Public Health, UT Health Science Center at Houston
2010-2016	Assistant Professor, Department of Biostatistics, School of Public Health, UT Health Science Center at Houston

2009-2010 Assistant Professor, Department of Epidemiology, Division of Cancer Prevention and Population Sciences, The University of Texas M. D. Anderson Cancer Center

2007-2009 Instructor, Department of Epidemiology, Division of Cancer Prevention and Population Sciences, The University of Texas M. D. Anderson Cancer Center

4. Adjunct Appointments:

2009-2012 Department of Epidemiology, U.T. MD Anderson Cancer Center

B. RESEARCH#: I am interested in developing Bayesian and hierarchical models for multifactorial traits. Application areas focus on identifying genetic, environmental, nutritional, and behavioral factors associated with cancer/cancer related outcomes, birth defects, smoking addiction, health services, and trauma care and survival.

1. Publications (* indicates a student I mentored or directed, # indicates my contribution is directly related to my research initiative [Statistical genetics or Bayesian hierarchical models], + indicates equal contribution with the first author.):

a. Articles in Refereed Journals (in chronological order)

2003

1. Costello TJ, **Swartz MD#**, Sabripour M, Gu X, Sharma R, Etzel CJ. (2003) Use of tree-based models to identify subgroups and increase power to detect linkage to cardiovascular disease traits. *BMC Genet*, 4 Suppl 1:S66. PMID: PMC1866504.

2005

2. Huang Q, Shete S, **Swartz MD#**, Amos CI. (2005) Examining the effect of linkage disequilibrium on multipoint linkage analysis. *BMC Genetics*, 6(Suppl 1):S83-S88. PMID: PMC1866697.
3. **Swartz MD#**, Minard CG, Amos CI. (2005) The relative efficiency of penetrance estimators for sib pairs, *Hum Hered* 59(1):61-6.

2006

4. **Swartz MD#**, Kimmel M, Mueller P, Amos, CI. (2006) Stochastic Search Gene Suggestion: A Bayesian hierarchical model for gene mapping. *Biometrics*, 62 (2): 495-503.

2007

5. Zhou X, Chen W, **Swartz MD#**, Lu Y, Yu R, Amos CI, Wu CC, Shete S. (2007) Joint linkage and imprinting analyses of GAW15 rheumatoid arthritis and gene expression data. *BMC Proc*, 1 Suppl 1:S53. e-Pub 12/2007. PMID: PMC2367552.
6. **Swartz MD#**, Thomas DC, Daw EW, Albers K, Charlesworth JC, Dyer TC, Fridley BL, Govil M, Kraft P, Kwon S, Logue MW, Oh C, Pique-Regi R, Saba L, Schumacher FR, Uh HW. (2007) Model selection and Bayesian methods in statistical genetics: summary of group 11 contributions to Genetic Analysis Workshop 15. *Genet Epidemiol*, 31 Suppl 1:S96-102.

7. **Swartz MD[#]**, Shete S. (2007) The null distribution of stochastic search gene suggestion: a Bayesian approach to gene mapping. *BMC Proc*, 1 Suppl 1:S113. e-Pub 12/2007. PMID: PMC2367497.
- 2008**
8. **Swartz MD[#]**, Yu RK, Shete S. (2008) Finding factors influencing risk: comparing Bayesian stochastic search and standard variable selection methods applied to logistic regression models of cases and controls. *Stat Med* 27(29):6158-6174. PMID: PMC3044475.
9. **Swartz MD[#]**, MO Q, Murphy ME, Hong MY, Vannucci M. (2008) Bayesian variable selection in clustering high dimensional data with substructure. *Journal of Agricultural, Biological and Environmental Statistics*, 13(4) pp.407-423.
- 2009**
10. Reyes-Gibby CC, Spitz MR, Yennurajalingam S, **Swartz M[#]**, Gu J, Wu X, Bruera E, Shete S. (2009) The role of inflammation gene polymorphisms on pain severity in lung cancer patients. *Cancer Epidemiology Biomarkers & Prevention*, 18(10):2636-42. PMID: PMC2759856.
- 2010**
11. **Swartz MD[#]**, Forman MR, Mahabir S, Etzel CJ. (2010) Pooling dietary data using questionnaires with open-ended and predefined responses: Implications for comparing mean intake or estimating odd ratios. *Am J Epidemiol*, 171(6):682-90. e-Pub 2/2010. PMID: PMC2842226.
- 2011**
12. **Swartz MD[#]**, Peng B, Reyes-Gibby CC, Shete S. (2011) Using Ascertainment for Targeted Resequencing to Increase Power to Identify Causal Variants. *Statistics and Its Interface*, 4(3):267-272. PMID: PMC3316326.
13. Yi JK, **Swartz MD**, Reyes-Gibby CC. (2011) English proficiency, symptoms, and quality of life in vietnamese- and chinese-american breast cancer survivors. *J Pain Symptom Manage*, 42(1):83-92.
- 2012**
14. Cheng L*, **Swartz MD**, Zhao H, Kapadia AS, Lai D, Rowan PJ, Buchholz TA, Giodano SH. (2012) Hazard of recurrence among women after primary breast cancer treatment – a 10-year follow-up using data from SEER-Medicare. *Cancer Epidemiology, Biomarkers and Prevention*, 21 (5): 800-809.
- 2013**
15. Winston CP*, Sallis JF, **Swartz MD**, Hoelscher DM, Peskin MF. (2013) Consumer Nutrition Environments of Hospitals: An Exploratory Analysis Using the Healthy Hospital Environment Scan for Cafeterias, Vending Machines and Gift Shops, 2012. *Preventing Chronic Disease*. PMID: PMC3702231.

16. **Swartz MD[#]**, Peterson CB*, Lupo PJ, Wu X, Forman MR, Spitz MR, Hernandez LM, Vannucci M, Shete S. (2013) Investigating multiple candidate genes and nutrients in the folate metabolism pathway to detect genetic and nutritional risk factors for lung cancer. *PLoS ONE*, 8(1): e53475 PMC3553105.
17. Wilkinson AV, **Swartz MD[#]**, Yu X*, Spitz MR, Shete S. (2013) Cigarette experimentation and the population attributable fraction for associated genetic and non-genetic risk factors. *PLoS ONE*, 8(1): e53868 1/2013. PMC3547034.
18. Winston CP*, Sallis JF, **Swartz MD**, Hoelscher DM, Peskin MF. (2013) Reliability of the Healthy Hospital Environment Scan for Cafeterias, Vending Machines and Gift Shops. *J Acad Nutr Diet*, 113(8): 1069-1075. PMID 23747171.
19. Reyes-Gibby CC, **Swartz MD[#]**, Yu X*, Spitz MR, Anderson KO, Yennurajalingam S, Wu X, Shete S. (2013) Symptom Clusters of Pain, Depressed mood and Fatigue in Lung Cancer: Assessing the Role of Cytokine Genes. *Supportive Care in Cancer*, 21(11): 3117-3125. PMCID PMC3923575.
20. Langlois PH, Canfield MA, **Swartz MD**. (2013) Poisson vs. Logistic Regression in a Descriptive Epidemiologic Analysis of Data from a Birth Defects Registry. *Birth Defects Research Part A: Clinical and Molecular Teratology*, 97(10) 702-707. PMID 23996970.
21. Cao Y*, Lupo PJ, **Swartz MD[#]**, Nousome D, Scheurer M. (2013) Using a Bayesian Hierarchical Model for Identifying Single Nucleotide Polymorphisms Associated with Childhood Acute Lymphoblastic Leukemia Risk in Case-Parent Triads. *PLoS One*, 8(12). PMC3868670.

2014

22. Hui D, dos Santos R, Chisholm G, Dev R, Paiva C, Yennu S, Seriacio F, Reddy S, Nascimento, MSA, Leite RA, Cruz PP, **Swartz MD**, Yu X*, et al. (2014) Clinical Signs of Impending Death in Cancer Patients. *Oncologist* (epub, 4/2014), 19(6): 681-687. PMCID: PMC4041673.
23. Beyda R*, Benjaminis LJ, Symanski E, **Swartz M**, Eissa M. (2014) Azithromycin Efficacy in the Treatment of Chlamydia trachomatis among Detained Youth. *Sexually Transmitted Disease*, 41(10):592-594.
24. **Swartz MD[#]**, Kim T*, Niu J*, Yu R, Shete S, Ionita-Laza I. (2014) Small Sample Properties of Rare Variant Analysis Methods. *BMC proceedings*, 8(Supp1) S27. PMCID: PMC4143716.
25. Huang J*, Chen Y, **Swartz MD[#]**, Ionita-Laza I. (2014) Family-Based Association Test for Sequence Data with Applications in the GAW 18 Simulated data. *BMC proceedings*, 8(Supp1) S27. PMID 25519316.
26. Sung YJ, Korthauer KD, **Swartz MD[#]**, Engelman CD. (2014) Methods for Collapsing Multiple Rare Variants in Whole Genome Sequence Data. *Genetic Epidemiology*, 38(Supp1): S13-S20. PMID 25112183.

2015

27. Mitchell LE, Agopian AJ, Bhalla A, Glessner JT, Kim CE, **Swartz MD**[#], Hakonarson H, Goldmuntz E. (2015) Genome-wide Association Study of Maternal and Inherited Effects on Left-Sided Cardiac Malformations. *Human Molecular Genetics*. 24(1):265-273. PMID 25138779.
28. Stingo F, **Swartz MD**[#], Vannucci M. (2015) A Bayesian Approach to Identify Genes and Gene-Level SNP Aggregates in a Genetic Analysis of Cancer Data. *Statistics and Its Interface*, 8(2):137-151.
29. Tran LT*, Tran LT, Bui TC, Le DT, Nyitray AG, Markham CM, **Swartz MD**, Vu CBT, Hwang L. (2015) Risk factors for high-risk and multi-type Human Papillomavirus infections among women in Ho Chi Minh City, Vietnam: a cross-sectional study. *BMC Women's Health*. 15:16. PMCID: PMC4339249.
30. **Swartz MD**[#], Cai Y*, Chan W, Symanski E, Mitchell LE, Danysh HE, Langlois PH, Lupo PJ. (2015) Air toxics and birth defects: a Bayesian hierarchical approach to evaluate multiple pollutants and spina bifida. *Environmental Health*, Feb9; 14:16. PMCID: PMC4429479
31. Nguyen NT*, Tran BX, Hwang LY, Markham CM, **Swartz MD**, Phan HT, Nguyen A, Latkin CA, Vidrine DJ. (2015) Prevalence of cigarette smoking associated factors among HIV patients on antiretroviral treatment in Vietnam. *PLoS One*, 10(2) e0118185. PMC4344328.
32. Nguyen NT*, Tran BX, Hwang LY, Markham CM, **Swartz MD**, Phan HT, Nguyen A, Latkin CA, Vidrine DJ. (2015) Motivation to quit smoking among HIV-positive smokers in Vietnam, a Cross Sectional Study. *BMC Public Health*, 15:326. PMCID: PMC4392856.
33. Tran LT*, Bui TC, Pham TV, Markham CM, Nyitray AG, **Swartz MD**, Tran LT, Huang L. (2015) Perception of primary male sexual partners' characteristics and women's history of sexually transmissible infections in Ho Chi Minh City, Vietnam. *Sexual Health*, Aug 12(4) 328-225. PMID: 26005058.
34. Crews, JD*, Anderson LR, Waller, DK, **Swartz, MD**, DuPont, HL, Starke, JR. Risk Factors for Community Associated Clostridium difficile Associated Diarrhea in Children. (2015) *The Pediatric Infectious Disease Journal*. 34 (9):919-923.
35. Deshmukh AA*, Zhao H, Franzini L, Lairson DR, Chiao EY, **Swartz MD**, Das P, Giordano SH, Cantor SB. (2015) Total lifetime and cancer-related costs for the elderly patients diagnosed with anal cancer in the United States. *American Journal of Clinical Oncology*. Epub
36. Lupo PJ, Danysh HE, Symanski E, Langlois PH, Cai Y*, **Swartz MD**. Neighborhood-based socioeconomic position and risk of oral clefts among offspring. (2015) *American Journal of Public Health*. 105(12):2518-2525. PMC4638238

2016

37. Nguyen NT*, Tran BX, Hwang LY, Markham CM, **Swartz MD**, Phan HT, Nguyen A, Latkin CA, Vidrine DJ. (2016) Effects of cigarette smoking and nicotine dependence on adherence to antiretroviral therapy among HIV patients in Vietnam. *AIDs Care*. 28(3):359-364

38. Kendzor, DE, Shuval, K, Gabriel, KP, Businelle, MS, Ma, P, High, RR, Cuate, EL, Poonawalla, IB, Rios, DM, Demark-Wahnefried, W, **Swartz, MD**, Wetter, DW. (2016) Impact of a smartphone intervention to reduce sedentary behavior in a community sample of adults. *Journal of Medical Internet Research*. 18(1): e19.
39. Tran LT*, Bui, TC, Markham, CM, **Swartz, MD**, Tran, QM, Nyitray, AG, Huynh, TT, Lu-Yu, H. (2016) Women's communication self-efficacy and expectations of primary male partners' cooperation in sexually transmitted infection treatment in Ho Chi Minh City, Vietnam: a cross-sectional study. *BMC Public Health*. 16:28 PMID: PMC4710979.
40. Cardenas, JC, Cap, AP, **Swartz MD**, Huby, MdP, Baer, LA, Matjevic, N, Cotton, BA, Holcomb, JB, Wade, CE. (2016) Plasma resuscitation promotes coagulation homeostasis following shock-induced hypercoagulability. *Shock*. 45(2): 166-173.
41. Bahl J, Pham TT, Hill NJ, Hussein ITM, Ma EJ, Easterday BC, Halpin RA, Stockwell TB, Wentworth DE, Kayali G, Krauss S, Schultz-Cherry S, Webster RG, Webby RJ, **Swartz MD**, Smith GJD, Runstadler, JA. (2016) Ecosystem Interactions Underlie the Spread of Avian Influenza A Viruses with Pandemic Potential. *PLOS Pathogens* 12(5): e1005620
42. Revere FL, Delgado RI, Donderici EY, Krause TM, **Swartz, MD**. (2016) Price Transparency and Healthcare Cost: An Evaluation of Commercial Price Variation for Obstetrical Services. *Journal of Healthcare Finance* 43(1) online
43. Liu Z*, Nyitray AG, Hang LY, **Swartz MD**, Abrahamsen M, Lazcano-Ponce E, Salmeron J, Quiterio M, Villa LL, Baggio ML, Silva RJ, Giuliano AR. (2016) Human Papillomavirus Prevalence Among 88 Male Virgins Residing in Brazil, Mexico and the United States. *Journal of Infectious Disease* 214(8): 1188-91 (Epub aug 3)
44. Deshmukh AA*, Zhao H, Das P, Chiao EY, You YN, Franzini L, Lairson DR, **Swartz MD**, Giordano SH, Cantor SB. (2016) Clinical and Economic Evaluation of Treatment Strategies for T1N0 Anal Canal Cancer. *American Journal of Clinical Oncology*

2017

45. Balogun T*, Troisi C, **Swartz M D**, Lloyd L, Beyda R. (2017) "For Drug and Alcohol Use I Would Talk to Mom": A Mixed Methods Study of Detained Youth. *Journal of Adolescent Health*, 60(2), S122.
46. Holcomb JB, **Swartz MD**, DeSantis SM, Green JT*, Fox EE, Stein D, Bulger E, Kerby J, Goodman M, Schreiber M, Zielinski M, O'Keeffe T, Inaba K, Tomasek J, Podbielski J, Appana S, Yi M, Wade C, (2017, accepted 1/10/2017) Multicenter Observational Prehospital resuscitation on Helicopter Study (PROHS). *Journal of Trauma and Acute Care Surgery*. PMID: PMC5562146
47. Jude K.A. des Bordes*, Lopes David S, **Swartz, MD**, Volk, R. (2017) Sociodemographic Disparities in Cure-Intended Treatment in Localized Prostate Cancer. *Journal of Racial and Ethnic Health Disparities* DOI: 10.1007/s40615-017-0348-y

48. Archer NP*, Perez-Andreu V, Stoltze U, Scheurer ME, Wilkinson AV, Lin T-N, Qian M, Goodings C, **Swartz MD**, Ranajit N, Rabin KR, Peckham-Gregory EC, Plon SE, de Alarcon PA, Zabriskie RC, Najera CR, Yang JJ, Lupo PJ. (2017) Family-based exome-wide association study of childhood acute lymphoblastic leukemia among Hispanics confirms role of *ARID5B* in susceptibility. *PLOS One*. 12(8):e0180488 PMID: PMC5560704
49. Kim J, **Swartz MD**, Langlois PH, Romiti PA, Weyer P, Mitchell LE, Luben TJ, Ramakrishnan A, Malik S, Lupo PJ, Feldkamp ML, Meyer RE, Winston JJ, Reefhuis J, Blossom SJ, Bell E, Agopian AJ, and the National Birth Prevention Study (2017) Estimated maternal pesticide exposure from drinking water and heart defects in offspring. *International Journal of Environmental Research in Public Health* 14(8). Pii: E889 PMID: PMC5580593
50. Koslovsky MD*, **Swartz MD**[#], Chan W, Leon-Novelo, L, Wilkinson AV, Kendzor DE, Businelle MS. (2017) Bayesian variable selection for multistate Markov models with interval-censored data in an ecological momentary assessment study of smoking cessation. *Biometrics* [Epub ahead of print] PMID: PMC5895542
51. Koslovsky, MD*, Hebert E, **Swartz MD**, Chan W, Leon-Novelo L, Wilkinson AV, Kendzor DD, Businelle, MS. The time-varying relations between risk factors and smoking before and after a quit attempt. *Nicotine & Tobacco Research*. Accepted 9/23/17;
52. Green TJ*, DeSantis SM, Fox EE, Holcomb JB, **Swartz MD**. Utilizing propensity score analyses in prehospital blood product transfusion studies: Lessons learned and moving towards best practice. *Journal of Military Medicine* 183(suppl_1):124-133.
53. Swartz MC, Lewis ZH, **Swartz MD**, Martinez E, Lyons EJ. Brief Report: Active ingredients for adherence to activity monitor-based physical activity intervention in older adults. *Journal of Applied Gerontology* Accepted 10/6/2017.
54. Koslovsky MD*, **Swartz, MD**[#], Chan W, Leon-Novelo, L, Wilkinson A, Kendzor D, Businelle M. Deterministic variable selection for logistic regression models. *Journal of Statistical Computation and Simulation* Accepted 10/26/2017.
55. Chang R, Fox EE, Greene TJ, **Swartz MD**, DeSantis SM, Stein DM, Bulger EM, Goodman, MD, Schreiber MA, Zielinski MD, O'keefe T, Inaba K, Tomasek JS, Podbielski JM, Appana S, Yi M, Johansson PI, Henriksen HH, Stensballe J, Steinmetz J, Wade CE, Holcomb JB; PROHS Study Group. Abnormalities of laboratory coagulation tests versus clinically evident coagulopathic bleeding: results from the prehospital resuscitation on helicopters study (PROHS). *Surgery*. Dec 27 doi: 10.1016/j.surg.2017.10.050. [Epub ahead of print] PMID: PMC5903880

2018

56. Liu Z*, Nyitray AG, Huang L-Y, **Swartz MD**, Abrahamsen M, Lazcano-Ponce E, Villa LL, Guiliano AR (2018) Acquisition, persistence and clearance of Human Papillomavirus infection among male virgins residing in Brazil, Mexico and the United States. *Journal of Infectious Disease*. (217) 767-776.
57. Yu X*, Chan W, **Swartz MD**, Piller, LB. (in press, 2018) “Joint models of dynamics of mothers’ stress and children’s disease” *Communications in Statistics – Simulation and Computation*.
58. Song J*, **Swartz MD**, Gabriel KP, Basen-Engquist K. (2018) A semiparametric model for wearable sensor-based physical activity monitoring data with informative device wear. *Biostatistics* Feb 5 doi: 10.1093/biostatistics/kxx073. [Epub ahead of print]
59. Balogun T*, Troisi C, **Swartz MD**, Lloyd L, Beyda R. (2018) Does Juvenile Detention Impact Health? *Journal of Correctional Health Care*. Jan 1, doi: 10.1177/1078345818763174. [Epub ahead of print]
60. Reingle JM⁺, Businelle, MS⁺, Kendzor DE, Staton M, North CS, **Swartz MD**. (2018) mHealth to increase treatment utilization among recently incarcerated homeless adults (Link2Care): Protocol for a randomized controlled trial. *JMR Research Protocols* 7, e151.
61. Zhang Y, Soun K, Lin Y*, Baum G, Basen-Engquist KM, **Swartz MD**. (in press, 2018) Comparisons of imputation methods with application to assess factors associated with self efficacy of physical activity in breast cancer survivors. *Communications in Statistics – Simulation and Computation*.
62. Cantle PM, Hurley MJ, **Swartz MD**, Holcomb JB. (2018, in press) Methods for early control of abdominal hemorrhage: An assessment of potential benefit. *Journal of Special Operations Medicine*, 18 (2). Pp 98-104.
63. Aggarwal P, Zaveri JS, Goepfert RP, Shi Q, Du XL, **Swartz MD**, Gunn GB, Lai SY, Fuller CD, Hanna EY, Rosenthal DI, Lewin JS, Piller LB, Hutcheson KA. (2018, in Press) Symptom Burden Associated with Late Lower Cranial Neuropathy in Long-Term Oropharyngeal Cancer Survivors. *JAMA Otolaryngology-Head & Neck Surgery* (To appear DEC2018)
64. Advani S, Advani P, DeSantis S, Brown D, VonVille, H, Lam M, Loree J, Sarhekeh AM, Bressler J, Lopez DS, Danie-MacDougall, C, **Swartz MD**, Kopetz S. (accepted 2018) [NOTE AUTHOR ORDER MAY BE IN CORRECT] Clinical, Pathological and Molecular Characteristics of CpG island methylator phenotype in colorectal Cancer: A systematic Review and Meta-analysis. *Translational Oncology*. (to appear 2018)
65. Patel CN, **Swartz MD**, Tomasek, JS, Vincent, LE, Hallum WE, Hocomb JB. (Accepted 2018). The Effects of Missed Doses of Antibiotics on Hospitalized Patient Outcomes. *Journal of Surgical Research* (To appear 2019).

66. Nguyen C, Lairson DR, **Swartz MD**, Du, XL. (2018: accepted) Racial, Socioeconomic and geographic disparities in the receipt, timing to initiation and duration of ajuvant androgen deprivation therapy in men with prostate cancer. *Journal of Racial and Ethinc Health Disparities*. PMID: Funded by CPRIT
67. Nguyen C, Lairson DR, **Swartz MD**, Du XL. (2018 accepted) Risks of major long-term side effects associated with androgen-deprivation therapy in men with prostate cancer. *Pharmacotherapy*.
68. Nguyen C, Lairson DR, **Swartz MD**, Du XL. Cost-effectiveness of adding androgen deprivation therapy to radiation therapy for men with advanced prostate cancer from the US payer's perspective. *Journal of Managed Care and Specialty Pharmacy*. 2018;In press. PMID: (funded by CPRIT).
69. Hoang TT, Lei Y, Mitchell LE, Sharma SV, **Swartz MD**, Waller K, Finnell RH, Benjamin RH, Bowne ML, Canfield M, Lupo PJ, Shaw G, Agopian AJ, The National Birth Defects Prevention Study. (2018, in press) Maternal lactase polymorphism (rs4988235) is associated with neural tube defects in offspring in the National Birth Defects Prevention Study. *Journal of Nutrition*.
70. Lei R, Swartz M, Harvin J, Cotton B, Holcomb J, Wade C, Adams S. (2018, accepted) Stop the Bleed training empowers learners to act to prevent unnecessary hemorrhagic death. *The American Journal of Surgery*. To appear.

b. Book Chapters in Edited Volumes

1. Kwon DW*, Kim S, Dahl D, **Swartz M**[#], Tadesse MG, Vannucci M. Identification of DNA regulatory Motifs and regulators by integrating gene expression and sequence data. In: *Bayesian Inference for Gene Expression and Proteomics*. Ed(s) Kim-Anh Do, Peter Mueller, Marina Vannucci. Cambridge University Press, 2006
2. Peterson C*, **Swartz MD**[#], Shete S, and Vannucci M. Bayesian model averaging for genetic association studies. In *Advances in Statistical Bioinformatics: Models and Integrative Inference for High-Throughput Data*, Ed(s) K. Do, Z.Qin, and M. Vannucci. Cambridge University Press, 2013

c. Papers Submitted to Peer Review Journals

1. Patel CN, **Swartz MD**, Tomaseck JS, Vincent LE, Hallum WE, Holcomb JB. The effects of missed doses of antibiotics on hospitalized patient outcomes. Submitted March 2017; Staus: under first review;
2. Song J*, **Swartz MD**, Gabriel KP, Basen-Engquies, K. A semiparametric model for wearable sensor-based physical activity monitoring data with informative device wear. Submitted Dec 2016 Status: Revise and resubmit from Biostatistics.

3. Zhang Y, Kim S, Lin Y*. Baum G. Basen-Engquist KM, **Swartz MD**. Comparisons of imputation methods with application to assess factors associated with self-efficacy of physical activity in breast cancer survivors. Submitted September 2017 Status: under review.

2. Grants and Contract Awards

a. Current Funding:

Role: Co-investigator (PI: Nyitray) 9/15/2017-08/31/2022 Effort: 15%
 NIH/NCI 1R01CA215403 \$594,607

Annual anal sampling using DNA screening to identify men who have sex with men at increased risk for anal cancer

Our pilot study indicated it was feasible to teach men having sex with men to palpate their own, or their partner's anal canal, for disease. Data in the proposed study could propel the development of a low-resource screening for rapid dissemination to populations with high anal cancer incidence and no currently proven screening options

Role: Co-investigator (PI: Zheng) 9/1/2017-08/31/2022 Effort: 5%
 CPRIT RP1706688 \$1,549,315

Data Science and Informatics Core for Cancer Research

The goals of this project are to establish a Data Science and Informatics Core to support cancer prevention and research in Texas by data science and informatics infrastructure and methodologies for data analysis and mining.

Role: Co-investigator (PI: Agopian) 12/1/2016-08/31/2018 Effort: 10%
 NIH NICHD 1R01HD086120 \$300,000

Do Cesarean Deliveries Reduce Mortality in Infants with Birth Defects?

The goal of this study is to identify labor and delivery characteristics that are associated with improved survival of infants with open birth defects.

Role: Principal Investigator 06/1/2016-05/31/2018 Effort: 16%
 NIH/NICHD R03HD083674 \$100,000

A Novel Trio-based Bayesian Method to Identify Rare Variants for Birth Defects

Goal: To develop a Bayesian hierarchical modeling approach to assess the rare variants associated with disease using a trio design (genotypes from the father, mother and child).

Role: Principal Investigator 1/16/2015-12/31/2017 Effort: 26%
 Subcontract to Center for Trauma \$7,103,193
 Injury Research (PI John Holcombe)

Prehospital Resuscitation on Helicopter Study (PROHS)

The objective of this study is to compare the effectiveness of two different existing

prehospital resuscitation approaches in severely injured trauma patients transported by air ambulance in a pragmatic, multicenter, prospective observational study. The statistical analysis of this study will involve applying propensity scores, and developing a Bayesian model averaging approach to improve propensity score estimation.

Role: PI of Subcontract (PI: Kendzor) 07/08/2015-06/30/2020 Effort: 10%
Ohio University Health Science Ctr. \$1,619,450
(NIH/NCI 1R01CA197314)

Small Financial Incentives to Promote Smoking Cessation in Safety Net Hospital Patients

To evaluate the effectiveness (relative to usual care) of an adjunctive CM intervention to improve smoking abstinence rates among socioeconomically disadvantaged individuals participating in a smoking cessation program. My role will be to direct and conduct the analysis using hierarchical models.

Role: Collaborator (PI: John Holcombe) Effort: 20%
Center for Translational Injury Research 6/1/2015-9/1/2018

Collaborations within The Center for Translational Injury Research. The Center for Trauma Injury Research is a research center within UT Health, responsible for research on the treatment and prognosis for patients with traumatic injury. The center is sponsoring 20% of my salary for collaborations with the center's faculty and students.

b. Completed Funding:

Role: Co-investigator (PI: Agopian) 1/1/2015-11/30/2016 Effort: 10%
NIH/NICHD 1R21HD080805-01 \$430,525

Pesticides in tap water and congenital heart defects

Goal: To evaluate the relationship between atrazine exposure through home tap water and CHDs using existing data from two of the largest population-based studies of birth defects: the Texas Birth Defects Registry. My role will be directing the analysis using hierarchical models for clustered data.

Role: Co-Investigator (PI: Allicock) 2015-2016 Effort: 5% (In kind)

American Cancer Society IRG \$30,000

Using Smartphones to promote healthy behaviors among breast cancer survivors: A pilot study

This feasibility study for an 8 week intervention will recruit for 4 months and analyze preliminary data assessing a smart phone intervention for increasing healthy behaviors in breast cancer survivors. Hierarchical models for ecological momentary assessment will be used for the analysis.

Role: Co-Investigator (PI: Revere) 10/16/2014-09/30/2015 Effort: 10%
CMS PRPPR140058-01-00, \$2,078, 000
Center for Medicare & Medicaid
Services

Grants to states to support health insurance rate review and increase transparency in health care.

The overall goal of this project is to assist the Texas Department of Insurance in establishing a consumer based website for healthcare price transparency in Texas. Secondary goals include the on-going development of a comprehensive claims database which can be used by researchers to investigate trends and variations in healthcare prices and the continued research in the area of price transparency and variation

Role: PI of Subcontract (PI: Lupo) 9/11/2012-8/31/2014 Effort: 20%
Baylor College of Medicine \$132,411
(NIH/NIDCR R03DE012739)

Air Toxics, Neighborhood Environment and Risk of Oral Clefts

Goal: To investigate the association between hazardous air pollutant levels in neighborhood areas and the risk of Oral Clefts birth defects.

Role: Co-Investigator (PI: Mitchell) 8/1/2011-6/30/2013 Effort: 15%
NIH/NHLBI 5R21HL098844-02 \$436,011

Genomewide Association Study of Conotruncal Heart Disease

Goal: Identify genetic variants associated with the risk of conotruncal heart defects

Role: Principal Investigator 08/01/2009-07/31/2011 Effort: 10%
NIH/NCI R03CA141998 \$100,000

A Novel Bayesian Model Averaging Approach for Genome Wide Association Studies.

This project focuses on developing Bayesian model averaging approach for identifying risk genes using Genome wide association data.

Role: Principal Investigator 06/1/2007-05/31/2012 Effort: 75%
NIH/NCI K07CA123109 \$630,000

Bayesian Hierarchical Models: Nutrition, Genes & Environment

The main objectives of this grant were to first develop a hierarchical Bayesian modeling approach to incorporate nutrition, genetic and environmental information, and then to assess the associations between nutrition, genetic and environmental variables and lung cancer risk.

Role: Consultant (PI: Reyes-Gibby) 07/01/2008-06/30/2010 Effort: 10%
NIH/NCI R03CA128069 \$100,000

Cytokine Polymorphisms and Cancer Related Pain

To identify associations between key polymorphisms in cytokine genes and pain symptoms in cancer patients.

c. Pending Applications:

Role: Co-Investigator (PI: Reingle & Businelle) 07/01/2016-06/30/2021 Effort: 20%

NIH \$283,393 (First year Direct costs)

mHealth to Increase Service Utilization among Recently Incarcerated Homeless Adults

The primary goals of this research are to: 1) assess the impact of an innovative smart phone application that will prompt and directly link recently incarcerated homeless adults to community-based case management services and resources, and 2) utilize in-person and smart phone based assessments to identify key variables that predict continued homelessness and re-arrest. 2nd percentile score, projected new start date 12/1/17.

Role: Co-Investigator (PI: Kendzor) 04/01/2016-3/31/2020 Effort: 10%
NIH/NIDDK R01DK109000 \$1,494,274

Evaluation of a Smartphone Intervention to Reduce Sedentary Behavior

Goal: To evaluate the efficacy of a “real-time” smartphone intervention that works in conjunction with a wearable activity monitoring device to decrease sedentary time via prompts during sedentary behavior over a 6-month period, and to identify contextual factors associated with sedentary behavior among overweight/obese and insufficiently active adults. Hierarchical models for ecological momentary assessments will be needed for this project. Only one Kendzor’s grants will be kept if both are funded.

Co-investigator (PIs: Schick and Nyitray) 03/01/2016-02/28/2019 Effort: 10%

CPRIT \$1,371,304

The Take Care of Yourself-Sampling Kit: Cervical Cancer Screening and Health Care Utilization among Economically Disenfranchised Women

Goal: To evaluate both the effect on screening rates and cost effectiveness of providing self-sampling kits to screen for Human Papillomavirus in an effort to increase screening for cervical cancer.

d. Training Grants (As a mentor)

1. 2011-present Mentor for T32 Training Grant Program In Biostatistics at UTHSC-SPH (Funded by National Institute of General Medicine Sciences, DeSantis, PI)
2. 2012-2014 mentor for R25 Training Grant on Innovative Multidisciplinary Education: The Statistical Genetics of Addiction (Funded by National Institute of Drug Addiction, Shete and Chang PI)
3. 2014-present Mentor for R25 Training Grant for Behavioral Science Education – Cancer Prevention and Control
4. Summer mentor for CPRIT training grant for undergraduate education

C. INVITED TALKS, PRESENTATIONS AND POSTERS

1. Invited Presentations (*=student, +=presenter)

1. **Swartz MD⁺** “Selecting Important Variables and/or Genes across a variety of outcomes” Invited presentation at the Department of Biostatistics, at The University of Texas Medical Branch, Galveston, April 24, 2018
1. Stingo F, **Swartz MD⁺**, Vannucci M. “A Bayesian Approach to Identify Genes and Gene-level SNP Aggregates in a Genetic Analysis of Cancer Data” Special Invited Session on Modern Bayesian Statistics II, 2015 Joint ICSA and Graybill Conference, Fort Collins, Colorado, 6/2015
2. **Swartz MD⁺**. “Identifying Risk Factors for Disease with Bayesian Model Selection”, Department of Environmental and Occupational Health, College of Medicine, National Cheng Kung University, Tainan, Taiwan, 12/2014
3. **Swartz MD⁺**. “A Not So Random Walk Through Stochastic Search Variable Selection and Applications”, University of Southern California, Keck School of Medicine, Division of Biostatistics, Los Angeles, California, 9/2014
4. **Swartz MD⁺**. “Stochastic Search Gene Suggestion and Applications to Cancer” Houston Area Statistical Association, Houston, TX, 9/2013
5. **Swartz MD⁺**. “Using Ascertainment for Targeted Resequencing to Increase Power to Identify Causal Variants” presented at International Indian Statistical Association Meetings, (Invited Session) Raleigh, NC, 4/2011
6. **Swartz MD⁺**. “Bayesian Variable Selection in Practice” presented at University of Southern California, Keck School of Medicine, Division of Biostatistics, Los Angeles California, 6/2010
7. **Swartz MD⁺**. “Developing Bayesian Variable Selection Methods for Genetics and Epidemiology” presented at City of Hope, Division of Cancer Etiology, Duarte, CA, 6/2010
8. **Swartz MD⁺**. “Bayesian Variable Selection in Practice” Presented at Rice University, Department of Statistics, Houston, TX 4/2010
9. **Swartz MD⁺**. “Comparing Bayesian Variable Selection and Stepwise Selection Methods for Logistic Regression Models of Cases and Controls, (Invited Session) Bi-Annual Workshop on Nutrition, Biostatistics and Bioinformatics, College Station, TX, 10/4/2008
10. **Swartz MD⁺**. “Stochastic Search Gene Suggestion: Bayesians and Biology Meet again!” (*Biometrics* editor-invited session) Joint Statistical Meetings Salt Lake City, UT 8/2007
11. **Swartz MD⁺**. “Stochastic Search Gene Suggestion: A Bayesian Hierarchical Model for Gene Mapping” (Invited Session) International Biometrics Conference, Montreal, Canada 7/2006
12. **Swartz, MD⁺**. “Submitting a K07” Invited presentation for the U.T. M. D. Anderson post-doctoral association, 7/2006
13. **Swartz MD⁺**. “Stochastic Search Gene Selection: Trials and Tribulations”

presented at University of Southern California, Keck School of Medicine,
Division of Biostatistics, Los Angeles California, 7/2003

2. Submitted Abstracts and Conference Presentations (*=student, +=presenter)

1. Yu, D^{*}, Sedory AC^{*}, Mohammadi K^{*}, Koslovsky MD, **Swartz MD⁺**
TRIO_RVEMVS: a fast Bayesian variable selection method for trios that identifies individual rare variants. International Genetic Epidemiology Society Meetings, San Diego CA October 2018
2. **Swartz MD**, Greene TJ, Fox EE, Appana SN, Yi M, Kim S, Garcia E, Johnson JM, Podbielski J, Tomasek JS, Wade CE, Holcomb JB, DeSantis SM. Proposed Guidelines for interim monitoring of prospective observational studies planning to invoke propensity scoring as the primary analysis. Joint Statistical Meetings, Baltimore MD August 2017
3. Song J^{*}, **Swartz MD**, Cox MG, Basen-Engquist K. Acc: an r package to process, visualize and analyze accelerometer data. Joint Statistical Meetings, Baltimore MD August 2017.
4. Greene TJ^{*,+}, DeSantis SM, **Swartz, MD** Propensity Scoring Methods for Ordinal Treatments. Joint Statistical Meetings, Chicago Il, August 2016
5. Koslovsky, M^{*,+}. **Swartz MD**, Deterministic Bayesian Variable Selection for Binary Outcomes. Joint Statistical Meetings, Seattle WA, August 2015
6. Song, J^{*,+}, **Swartz MD**, Johnson J, Fujii T, Yamal J-M. High-dimensional variable selection models to predict occurrence of prostate cancer from gene expression profiles. Poster presentation at University of Texas School of Public Health Student Research Day, Houston, TX. April 9, 2015 (Won best poster award (1st place).
7. **Swartz MD⁺**, Cai Y^{*}, Chan W, Symanski E, Mitchell, LE, Danysh H, Langlois P, Lupo PJ. Using Bayesian Hierarchical models to simultaneously evaluate multiple pollutants associated with Spina Bifida. Joint Statistical Meetings, Seattle WA, August 2015.
8. **Swartz, MD⁺**, Koslovsky, MD^{*}, Vandewater, EA, and Wilkinson AV. A stochastic search through smoking images in movies, genetic and psychosocial factors associated with smoking initiation in Mexican American youths. Poster presented at the international Genetic epidemiology society meetings in Vienna, Austria, August 2014.
9. Cai Y^{*,+}, **Swartz MD**, Chan W, Lupo P. A Bayesian model with shrinkage prior to solve the uncertainty of modeled hazard air pollutant concentrations. Poster presented at the Joint Statistical Meetings in Boston, MA, August 2014.
10. Song J^{*,+}, **Swartz MD**. Comparison of variable selection methods for high dimensional data in applications to genetic association studies with gene-environment interactions. Poster presented at the Joint Statistical meetings in Boston, MA, August 2014
11. Beyda RM^{*,+}, Benjamins LJ, Symanski E, **Swartz M**, Risser WL, Eissna M. Assessing Azithromycin Efficacy in Treatment of Chlamydia Trachomatis Presented in NASPAG, April 2013

12. **Swartz MD⁺**, Kim T*, Niu J*, Yu R, Shete S, Ionita-Laza, I. “Small Sample Properties of Rare Variant Analysis Methods” Talk presented at Genetic Analysis Workshop 18, Stevenson, WA, in 10/2012.
13. **Swartz MD⁺**, Peterson CB*, Lupo PJ, Wu X, Forman MR, Spitz MR, Hernandez LM, Vannucci M, Shete S. Identifying Genetic and Nutritional Risk Factors for Lung Cancer Related to Folate Metabolism poster presented at American Institute for Cancer Research, Washington DC, 11/2011
14. **Swartz MD⁺**, Peterson, CB*, Lupo PJ, Wu X, Forman MR, Spitz MR, Hernandez LM, Vannucci M, Shete S. “Searching through the Folate Metabolism Pathway and Nutritional Risk Factors for Lung Cancer Risk” poster presented at International Genetic Epidemiology Society Meetings in Heidelberg Germany 9/2011
15. **Swartz MD⁺**, Peng B, Reyes-Gibby CC, Shete S. “Increasing Power to Identify Causal Variants Using Ascertainment for Targeted Resequencing” talk presented at the Joint Statistical meetings Miami Beach, FL, 8/2011
16. **Swartz MD⁺**, Forman MR, Mahabir S, Etzel CJ. “Pooling Dietary Data Using Questionnaires with Open-ended and Predefined responses: Implications for comparing Mean Intake or Estimating Odds Ratios” poster presented at Cancer Prevention Research Institute of Texas, Innovations in Cancer Prevention and Research Conference, Austin, TX 11/2010
17. **Swartz MD⁺**, Peng B, Reyes-Gibby CC, Shete S. “Ascertained Samples for Targeted Reasequencing Increases Power when Identifying Causal Variants” Poster presented at the International Genetic Epidemiology Society Meetings, Boston MA 10/2010
18. **Swartz MD⁺**, Peng B, Reyes-Gibby CC, Shete S. “Reducing Costs of Two Stage Genome Wide Association Studies, talk presented at Eastern North American Region of the International Biometrics Society, San Antonio, TX 3/2009
19. **Swartz MD⁺**, Yu RK, Shete S. “Finding Factors Influencing Risk: Comparing Variable Selection Methods Applied to Logistic Regression Models of Cases and Controls” talk presented at the Joint Statistical Meetings, Denver CO, 8/2008
20. **Swartz MD⁺**, Yu RK, Shete S. “Comparing Variable Selection Methods for Genetic Association Methods” Poster presented at the International Genetic Epidemiology Society Meetings, York, UK 9/2007
21. **Swartz MD⁺**, Barrera SL, Mahabir S, Etzel CJ, Eastham CA, Spitz MR, Forman MR. “Ethnic and Gender – Differences in USDA Pyramid Servings of Fruit and Vegetables Using a Modified Block FFQ.” Poster presented at the American Society for Preventive Oncology Houston, TX 3/2007
22. Schendel K⁺, Mahabir S, **Swartz M**, Barrera S, Dong Y, Spitz MR, Forman MR. “Dietary Intake of gamma and alpha Tocopherol Reduces Lung Cancer Risk” poster presented at the American Society for Preventive Oncology Houston, TX 3/2007

23. **Swartz MD⁺** and group 11 from GAW 15. “Group 11: Model Selection and Bayesian Methods” Talk Presented at the Genetic Analysis Workshop 15, St. Pete Beach FL, 11/2006
24. **Swartz MD⁺**, Shete S. “The null Distribution of Stochastic Search Gene Suggestion: A Bayesian Approach to Gene Mapping” Poster presented at the Genetic Analysis Workshop 15, St. Pete Beach, FL 11/2006
25. **Swartz MD⁺**, Mueller P, Kimmel M, Amos C. “Gene Mapping Meets Bayesian Model Selection in Stochastic Search Gene Suggestion” poster presented at the International Genetic Epidemiology Society Meetings, Netherlands, 9/2004
26. **Swartz MD⁺**, Mueller P, Kimmel M, Amos, C. “Stochastic Search Gene Suggestion: A Bayesian Hierarchical Model for Gene Mapping” talk presented at the Joint Statistical Meetings, Toronto, Canada 8/2004
27. **Swartz MD⁺**, Mueller P, Kimmel M, Amos C. “Approximating Linkage Disequilibrium Patterns as a Covariance Function”. Talk presented at the International Genetic Epidemiology Society Meetings, New Orleans LA, 11/2002
28. **Swartz MD⁺**, Mueller P, Kimmel M, Amos, C. “A Bayesian Model for Gene Mapping of a Complex Disease, talk presented at the Joint Statistical Meetings, New York, NY, 8/2002
29. **Swartz MD⁺**, Mueller P, Kimmel M, Amos C. “A Bayesian Model for Mapping a Complex Disease in the HLA Region of Chromosome 6,” Poster presented at the Valencia International Meeting on Bayesian Statistics 7, Tenerife, Spain 6/2002
30. **Swartz MD⁺**, Amos C. “Obtaining the Information for Estimating Disease Penetrance Using Sib Pairs” Talk presented at the Conference of Texas Statisticians, San Antonio TX, 4/2001
31. **Swartz MD⁺**, Amos, C. “Efficiencies of Various Methodologies for Estimating Penetrance” poster presented at The American Society for Human Genetics Meetings, San Francisco, CA, 10/1999

D. TEACHING and MENTORING

1. Classes Taught at UT School of Public Health

Course	Cr.	Effort	Semester	Mean Overall Effectiveness Score	# students
PH1700: Intermediate Biostatistics	4	100%	Spring 2011	4.28	42
PH1700: Intermediate Biostatistics	4	100%	Summer 2012	4.71	8
PH1820: Applied Statistical Analysis 1	3	100%	Fall 2012	4.77	47
PH1820: Applied Statistical Analysis 1	3	100%	Spring 2013	5.00	36
PH1820: Applied Statistical	3	100%	Fall	4.78	47

Analysis 1				2013		
PH1820: Applied Statistical Analysis 1	3	100%	Spring	2014	4.88	17
PH1820: Applied Statistical Analysis 1	3	100%	Fall	2014	4.85	36
PH1820: Applied Statistical Analysis 1	3	100%	Spring	2015	4.80	27
PH1820: Applied Statistical Analysis 1	3	100%	Fall	2015	4.88	42
PH1820: Applied Statistical Analysis 1	3	100%	Spring	2016	5.00	19
Capstone	3	33.3%	Spring	2017		30 (10)
PH1820: Applied Statistical Analysis 1	3	100%	Fall	2017	4.89	28
Capstone (online)	3	11%	Spring	2018	3.6	139 (14)

2. Partial Classes

- Teacher to teacher series: 1 lecture (invited) fall 2013 and spring 2014: “Effective Teaching for Biostatistics and Other Quantitative Topics”
- Visiting Panel Speaker for PH1997 Teaching and Learning for Biostatistics (1 class session)

3. Thesis/ Dissertation Supervisor

	Student’s Name	Degree Program	Study Period	Status or month/year of graduation
1.	Brown, Derek	PhD Biostatistics (co-directing with DeSantis).	May 2018-present	Proposed, working on dissertation
2.	Cao, Ying	MS Biostatistics	Aug 2011-Aug 2012	Graduated Aug 2012; Thesis: “Detecting Genetic and Nutritional Lung Cancer Risk factors Related to Folate Metabolism using Bayesian Generalized Linear Models”
3.	Cheng, Lee	PhD Biostatistics	Oct 2010-Dec 2013	Graduated Dec 2013; Dissertation: “Developing the follow-up Schedules for Women with Breast Cancer”
4.	Gambrie, Dhiraj D.	MPH Biostatistics	Jan 2014-May 2014	Graduated May 2014; Thesis: “Identifying

				Patient Characteristics associated with different Phenotypic Presentations of Lipodystrophy among Subjects with HIV”
5.	Greene, Thomas J.	PhD Biostatistics (Co-directing with Desantis)	Aug 2015-present	Successfully Proposed expected graduation august 2017
6.	Harish, Joshi	MS Biostatistics	Aug 2012-Dec 2013	Graduated Dec 2013; Thesis: Accessing the Power of Conditional Logistic Regression to Detect Gene-Gene Interactions in Case-Parent Trios with Application to Conotruncal Heart Defects
7.	Johnson, Jada	PhD Biostatistics (co-directing with Dr. DeSantis)	January 2018	Working on proposal
8.	Koslovsky, Matthew D.	PhD Biostatistics	Aug 2013-Dec 2016	Graduated December 2016: Deterministic Variable Selection Developments for Binary Outcomes
9.	Kovyrshina, Tatiana A.	MS Biostatistics	Jan 2013-Aug 2014	Graduated Aug 2014; Thesis “Molecular Pathway Activation in Cancer and Tissue Following Space Radiation Exposure”
10.	Liao, Yunqi (Vicky)	MS Biostatistics	Jan 2016-present	Successfully proposed, completing thesis.
11.	Lin, Ye	MS Biostatistics	Aug 2012-May 2015	Graduated May 2015: Comparing quantile imputation with other selected imputation methods for missing data with application to assess factors associated with self efficacy of physical activity in breast cancer survivors
12.	Manandhar, Pratik	MS Biostatistics	May 2014-Aug 2015	Graduated Aug 2015; Thesis: Investigating

13.	Niu, Jiangong	MS Biostatistics	Jan 2011- Dec 2011	Work Place Intervention and Change in Metabolic Equivalence of Task Using Multilevel Data Graduated Dec 2011; Thesis: “Comparison for Two Statistical Methods for Rare Variant Association Analysis”
14.	Ordonez, Adriana L.	PhD Biostatistics	Aug 2010- Present	Passed qualifying exams, developing proposal
15.	Pan, Meiling	MS Biostatistics	May 2014- May 2016 (expected)	Thesis: Assessing Factors Associated with clusters of DNA Index Distribution in Patients with Cervical Neoplasia
16.	Pal, Navdeep	MS Biostatistics	Aug 2015- Dec 2015	Thesis: Factors Prognostic of Survival in Advanced Stage Uterine Papillary Serous Carcinoma
17.	Ramesh, Naveen	MS Biostatistics	Aug 2012- Aug 2014	Graduated Aug 2014; Thesis: “Theoretical investigation of the feasibility and accuracy of SNP discovery in extremely low coverage NGS-based cohort studies.”
18.	Sedory, Abigail	MS Biostatistics	August 2014-Dec 2016	Thesis: Let’s Talk about Sex: A Dyadic Analysis Using Baseline Data from “The Secret of Seven Stones” Program on Communication Between Parent and Adolescent Youth about Initiation of Sex
19.	Sedory, Abigail	PhD Biostatistics	Jan 2017- present	
20.	Song, Jaejoon	PhD Biostatistics	Aug 2013- present	Graduated Aug 2017 Dissertation: Statistical methods for wearable sensor data.
21.	Zhao, Yang	MS Biostatistics	Aug 2011- Aug 2013	Graduated Aug 2013; Thesis: “Evaluation of

22.	Zheng, Yefei	PhD Biostatistics	Jan 2013- Present	Clinical Trial Designs for the Development of Targeted Agents” Preparing proposal
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4. Academic Advisor

	Student's Name	Degree Program	Study Period	Status or month/year of graduation
1.	Cai, Yi	PhD Biostatistics	Aug 2013- May 2014	Formed dissertation committee (will shift to breadth advisor)
2.	Cao, Ying	PhD Biostatistics	Aug 2012- Dec 2013	Passed qualifiers, Chose a different research supervisor for dissertation, I became Bioinformatics breadth member of committee. Graduated Dec 2014
3.	Chan, Winston J.	MPH Biostatistics	Aug 2012- Dec 2014	
4.	Gao, Qianmiao	PhD Biostatistics	Fall 2015- Spring 2017	Changed to another academic advisor for dissertation
5.	Huang, Melin	PhD Biostatistics	Aug 2013- August 2016	Chose different advisor, Kept as member
6.	Kim, Ju Yeong	MS Biostatistics	August 2014- present	Developing proposal under Dr. Kayo Fujimoto
7.	Liu, Yuanyuan	PhD Biostatistics	2015- present	Completed qualifying exams established committee
8.	Lopez- gamundi, Paula	MS Biostatistics	Aug 2016- present	Transferred from MPH to MS, working on thesis
9.	Makashir, Sumit B.	MPH Biostatistics	Aug 2011- Aug 2013	Graduated Aug 2013, Capstone.
10.	Qiao, Min	PhD Biostatistics	Jan 2014- present	Developing Proposal
11.	Rector, Alison	PhD Biostatistics	Aug 2018- present	
12.	Retamoza, Cristina Olivia	MS Biostatistics	Fall 2015- present	Completing first year
13.	Samarakoon, Lassana	MPH Biostatistics and PhD	Fall 2016- present	Started phd program fall 2018

14.	Sedory, Abigail	biostatistics PhD Biostatistics	Jan 2017-present	
15.	Wu, Yiling	MPH Biostatistics	Aug 2014-May 2015	Graduated Capstone
16.	Zhang, Jun	PhD Biostatistics	Aug 2013-Dec 2016	Formed Dissertation committee with different advisor:
17.	Zhang, Wen	PhD Biostatistics	Aug 2018-present	
18.	Zhu, Huirong	PhD Biostatistics	Aug 2011-May 2013	Passed Preliminary Exams; Chose a different advisor

5. Member of the Academic/Thesis/Dissertation Committees for Student

	Student's Name	Degree Program	Study Period	Status or month/year of graduation
1.	Archer, Natalie P.	PhD Epidemiology (Biostatistics minor)	Aug 2012-July 2015	Graduated Dec 2016
2.	Azadeh, Shabnam	PhD Biostatistics (Bioinformatics breadth)	Apr 2014-Dec 2015	Graduated Dec 2015
3.	Balogun, Titilola B.	DrPH MPACH	Oct 2015-Aug 2016	Graduated August 2016
4.	Bell, Cynthia S.	PhD Epidemiology	Aug 2015-present	Successfully proposed:
5.	Beyda, Rebecca M.	MS Epidemiology (Biostatistics minor)	Apr 2012-2013	Graduated May 2013
6.	Bluethman, Shirley	PhD Behavioral Science (biostatistics minor)	May 2012- Dec 2012 (qualifying exam committee)	Graduated May 2014
7.	Cao, Ying	PhD Biostatistics (Bioinformatics breadth)	Dec 2014-Aug 2015	Graduated May 2015
8.	Carey, Felicia R.	PhD Epidemiology	Jun 2016-present	Graduated May 2017
9.	Chen, Naomi	PhD Behavioral Science (Biostatistics minor)	May 2011-Jul 2012 (qualifying exam committee)	Graduated May 2014

10.	Crews, Jonathan	MS Epidemiology (Biostatistics Minor)	Nov 2013-May 2014	Graduated May 2014
11.	Dharia, Priyadarshani	PhD Epi (Biostatistics minor)	August 2017- present	
12.	Dacruz, Jina	PHD Behavioral Science (Biostatistics Minor)	Jan 2012- Dec2012 (qualifying exam committee)	Passed Qualifying Exam
13.	Des Bordes, Jude K. A.	DrPh Community Health (Biostatistics minor)	Nov 2011-Dec 2014	Graduated Dec 2014
14.	Deshmukh, Ashish A.	PhD Management (Biostatistics minor)	Oct 2011-June 2014	Graduated Aug 2014
15.	Elsayem, Ahmed	MPH MPACH	Jan 2015-May 2015	Graduated May 2015
16.	Fowler, Sharon	PhD Epidemiology	July 2017- present	
17.	Gallardo, Katheryn	PHD Behavioral Science	March 2017- Present	
18.	Goddu, Sumana	MPH Epidemiology	Jan 2013-May 2013	Graduated May 2013
19.	Haddock, Nicole M.	PhD Behavioral Science	Jan 2011-Dec 2013	Graduated May 2014
20.	Hoang, Thanh T.	PhD Epidemiology	Jan 2016- present	Successfully proposed dec 2016
21.	Meilin Huong	PhD Biostatistics (Breadth advisor)	Aug 2016- present	Successfully proposed June 2016
22.	Jemima John	PhD Epidemiology	Nov 2016- present	Graduated August 2017
23.	Kaipust, Christopher	MPH Epidemiology	Jan 2014-Aug 2014	Graduated Aug 2014
24.	Kanywa Jacqueline B.	MPH Epidemiology	Aug 2012-Aug 2013	Graduated Aug 2013
25.	Kimmel, Barbara	DRPH Behavioral Science	May 2014- Present	Successfully proposed Dec 2016
26.	Langabeer, Denise	PhD Management	April 2015- present	Developing Proposal
27.	Liang, Fu-Wen	PhD Biostatistics	Jan 2012-Aug 2012	Graduated Aug 2012

28.	Liu, Zhiyue	PhD Epidemiology	Aug 2014-Dec 2016	Graduated Dec 2016
29.	Varuna Manthena	MS Epidemiology	Feb 2015-Dec 2015	Graduated Dec 2015
30.	Morales, Sylvia M.	PhD Behavioral Science	Jan 2013-Jan 2015	Passed Preliminary Exam
31.	Nguyen, Chi H.	PhD Epidemiology	May 2014-present	Proposed Dissertation
32.	Nguyen, Nga T. H.	PhD Epidemiology	May 2014-Dec 2014	Graduated December 2014
33.	Nguyen, Nhung	PhD Epidemiology	Dec 2013-May 2015	Graduated May 2015
34.	Prasad, Sapna	PhD Management	May 2014-present	Graduated August 2017
35.	Priyanka, Priyanka	MPH Epidemiology	May 2014-Dec 2014	Graduated Dec 2014, MPH Thesis.
36.	Qiu, Xueting	MS Epidemiology	August 2014-August 2015	Graduated August 2015
37.	Rao, Xiayu	MS Biostatistics	Aug 2012-May 2013	Graduated May 2013
38.	Rednam, Surya P. R.	MS Epidemiology	Jan 2011-May 2013	Graduated May 2013
39.	Rios, Debra	DrPH Behavioral Science	Aug 2014-Dec 2016	Graduated December 2016
40.	Sauceda, Viridiana I.	MS Epidemiology	Aug 2011-Dec 2015	Committee Discontinued
41.	Shailesh, Advani	PhD. Epidemiology	Jan 2014-Present	Developing Proposal
42.	Christine Spencer	PhD Epidemiology	Fall 2015-Present	Successfully proposed aug 2017
43.	Tran, Ly	PhD Epidemiology	Dec 2013-August 2014	Graduated Aug 2014
44.	Truong, Van T.T.	MS Epidemiology	Jan 2014 - August 2014	Graduated Aug 2014
45.	Ukhanova, Maria A.	PhD Health Services Research	May 2014-present	Proposed successfully
46.	Wang, Zhe	PhD Epidemiology (minor advisor)	August 2016-present	Proposed successfully
47.	Yang, Christine	MS Epidemiology	May 2014-May 2015	Graduated May 2015
48.	Yu, Xiaoying	PhD. Biostatistics	November 2014-May 2015	Graduated May 2015.

6. Junior Faculty Mentoring at UT HEALTH

- a. Soeun Kim, PhD, Assistant Professor, Department of Biostatistics School of Public Health, February 2017-present
- b. MinJae Lee, Assistant Professor, Department of Biostatistics, Epidemiology and Research design, McGovern School of Medicine, June 2017-present
- c. Luis Leon-Novelo, Assistant Professor, Department of Biostatistics and Data Science, School of Public Health, April 2018-present

E. TEACHING RELATED SERVICE

a. Within the Department of Biostatistics

- Chair of the PH1700: Intermediate Biostatistics Curriculum Committee, Division of Biostatistics, School of Public Health, University of Texas-Houston, 2010-2014
- Member of the qualifying exam committee, Division of Biostatistics, School of Public Health, University of Texas-Houston, 2010-present

b. Within U.T. School of Public Health

- Alternate Member of the School Wide Curriculum Committee, School of Public Health, University of Texas-Houston, 2010-2014
- Member of the Practice Council, School of Public Health, University of Texas-Houston, 2011-present

c. Within U.T. Health Science Center

- 10% effort devoted to the UT System Institute of Transformational Learning to develop a Biostatistics Critical Thinking Course. November 2014-present

d. Serving the Greater Houston Area

- ASA Traveling short course: Applied Mixed Models taught by Dr. Linda Young, Houston, Texas, **Co-chair** of Organizing Committee, course date: April 28, 2012
- ASA Traveling Short Course: Applied Logistic Regression, Taught by Dr. Rod Sturdivant, Houston, Texas, **Member** of Organizing Committee, course date: January 9, 2015

e. Serving at the National Level

- Round table discussion at the Joint statistical meetings: **Swartz, MD** and Yamal JM, "Technology in the Classroom: New levels of teaching and learning statistics", Round table discussion at the Joint Statistical Meetings, in Boston, MA, August 2014

F. OTHER SERVICE

1. Within the Department of Biostatistics and Data Science

- Chair of the Junior Faculty Quality of Academic Life Committee, Division of Biostatistics, School of Public Health, University of Texas-Houston, 2010-2011, reprise 2013-2014.
- Member of ad hoc committee for academic misconduct Spring, 2014
- Member of Departmental Admissions committee for Biostatistics graduate program 2012-2015

- Chair of the Departmental Admissions committee for Biostatistics graduate program July 2014- July 2015
- Co-Chair of Committee for Education for the Department September 2017-present
- Chair of Education subcommittee for Teaching Quality and Efficiency for the department. September 2017-present
- Member of Education subcommittee for curriculum development and teaching assignment for the department September 2017-present
- Chair of Biostatistics Introductory course Development Committee September 2017-Present

2. School Wide Service

- Member of the AIP review committee, School of Public Health, University of Texas-Houston 2012
- Internal Reviewer for the Front of the Envelope applications, internal funding mechanism for the school of public Health, University of Texas-Houston, 2012
- Member of 1 Faculty Search Committee for NTT assistant professor of Biostatistics School of Public Health, University of Texas-Houston, July-September 2013
- Representative of the Department of Biostatistics to the Practice Council 9-1-2013-December 2017
- Representative of the Department of Biostatistics to the Schoolwide admissions committee July 2014- July 2015
- Member of Interfaculty Council June 1, 2017-PRESENT

3. Professional Service

- a. Collaborating Statistician for the Birth Defects Epidemiology and Surveillance Branch of Texas Department of State Health Services 2013-PRESENT
- b. Grant Review Study Section
 - Ad hoc reviewer for CASE-EPIC section 10 ZRG1 PSE K(90) June 20-23, 2015
 - Ad hoc reviewer for CASE-EPIC section 10 ZRG1 PSE K(90) October 29-30, 2015
 - Ad hoc reviewer for CHSA study section June 27-28, 2016
 - Ad hoc reviewer for CHSA study section October 26-27, 2016
 - Ad hoc reviewer for SEP ZEB1 OSR-C review November 2, 2017

c. Organization of Conferences/Symposia (Include Chairing Session)

- Joint Statistical Meetings, Boston, MA, Session 210288 Bayesian Biostatistics **Session Chair**, Conference date August 2014
- 3rd Bi-annual workshop on Nutrition, Biostatistics and Bioinformatics, Texas A&M, College Station, TX, **Organizing committee**, conference date 2/2012,
- Eastern North American Region of the International Biometric Society, Contributed Papers: Genetic Studies with Related Individuals (last minute substitution), San Antonio, TX, **Session Chair**, conference date 3/2009
- Eastern North American Region of the International Biometric Society, Contributed Papers: Variable Selection Methods, San Antonio, TX, **Session Chair**, conference date 3/2009
- Eastern North American Region of the International Biometrics Society Meetings, Contributed session: Current Advances in Modeling Time Course Gene Expression Data, Austin, TX, **Session Chair**, conference date 3/2005
- Joint Statistical Meeting, Topic contributed session: From Genotypes to Expression Arrays: Complex Analysis of Genetic Data, Toronto, Canada, **Organizer**, conference date 8/2004
- Eastern North American Region of the International Biometrics Society, Contributed session: Bayesian Designs and Nonparametric Bayesian Methods, Charlotte, NC, **Session Chair**, conference date 3/2001

d. Reviewer for Professional Journals (Chronological Order)

- Reviewer, Genetic Analysis Workshop Summary Paper, Genetic Epidemiology 2007
- Reviewer, Computational Statistics and Data Analysis 2007, 2013
- Reviewer, Computational Chemistry: Advances and Applications, 2008
- Reviewer, International Journal of Obesity, 2008, 2012
- Reviewer Computational Statistics 2012
- Reviewer, Annals of Human Genetics, 2009
- Reviewer, Genetic Analysis Workshop 17, BMC proceedings 2011.
- Reviewer, Genetics Research, 2011
- Reviewer Genetic Epidemiology 2011-2015
- Reviewer PLOS Genetics 2011, 2012,
- Reviewer PLOS One 2012, 2013
- Reviewer BMC Bioinformatics 2013
- Reviewer Tumor Biology 2014
- Reviewer Statistical Applications in Genetics and Molecular Biology 2014-2015

e. General Service to Statistics

- Secretary of the Houston Area Chapter of the American Statistical Association 2006-2015
- Judge for student poster competition at the Conference of Texas Statisticians, Houston, TX, 2013
- Judge for the Special Award in Statistics for the Houston Science Fair 2012