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: Sanjay Shete	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:

- 2021 UTSPH Annual Award for Excellence in Teaching
- 2016 Teaching Statistics For the Health Sciences Section of the American Statistical Association Outstanding Teaching Award
- 2016 UTSPH Annual Award for Excellence in Teaching
- 2015 Student Marshal\Finalist up for John P. McGovern Award for Outstanding Teaching (student elected)
- 2015 UTSPH nominee for Regents of Texas Outstanding Teacher Award
- 2014 UTSPH nominee for the Regents of Texas Outstanding Teacher Award
- 2013 Student Marshall\Finalist for John P. McGovern Award for Outstanding Teaching (Student elected)
- 2013 American Statistical Association Chapter service award.
- 2006 Biometrics Showcase for outstanding publication in Biometrics 2004-2006
- 2003 Chairman's award to Graduate Students for Service to Department of Statistics, Rice University

3. Professional Experience:

2025-present Professor, Department of Biostatistics, School of Public Health,

	The University of Texas Health Science Center at Houston
2022-2025	Professor and Vice Chair, Department of Biostatistics, School of Public Health, The University of Texas Health Science Center at Houston
2021-2022	Associate Professor and Vice Chair, Department of Biostatistics, School of Public Health, The University of Texas Health Science Center at Houston
2016-present	Associate Professor, Department of Biostatistics, School of Public Health, The University of Texas Health Science Center at Houston
2010-2016	Assistant Professor, Department of Biostatistics, School of Public Health, The University of Texas 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[#]: My methodology work relates to three main areas: 1) developing Bayesian and hierarchical models for multi-factorial traits or outcomes 2) novel methodology for observational data/causal analysis and 3) statistical genetics. I have substantial expertise in applying statistical models to analyze/identify genetic, environmental, nutritional, and/or behavioral factors associated with cancer/cancer related outcomes, birth defects and other birth outcomes, smoking addiction, health services, trauma care and survival and infectious disease through both observational studies and randomized trials.

1. **Publications** (***** indicates a student or post-doc I mentored or directed (includes as a committee member), [#] indicates my contribution is directly related to my research initiative [Statistical genetics or Bayesian hierarchical models or observational data\causal analysis], [+] 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. PMCID: 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. PMCID: 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. PMCID: 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. PMCID: 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. PMCID: 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. PMCID: 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. PMCID: 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. PMCID: 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. PMID: 22426147

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*. PMCID: 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 PMCID: 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. PMCID: 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. PMCID: PMC3702231.
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). PMCID: PMC3868670.

2014

22. Hui D, dos Santos R, Chisholm G, Dev R, Paiva C, Yennu S, Seriaco 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. PMCID: PMC4143708.
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. PMCID: PMC4558905.

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. PMCID: PMC4326325PMID 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. PMCID: PMC5630184.
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. PMCID 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. PMCID: PMC4575237.
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. PMCID: PMC5592145.
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. PMCID: 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. PMCID:. PMC6691494.
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. PMCID: PMC4746437.
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 PMCID: 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. PMID: 26529664.
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. PMCID: PMC4864295.

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) PMCID: PMC5034958.
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.* PMCID: PMC5393969.

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. PMCID: 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. PMID: 28205153.
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 PMCID: 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 PMCID: PMC5580593.
50. Koslovsky MD*, **Swartz MD**[#], Chan W, Leon-Novelo, L, Wilkinson AV, Kendzor DE, Businelle MS. (2018) Bayesian variable selection for multistate Markov models with interval-censored data in an ecological momentary assessment study of smoking cessation. Biometrics. 74(2) 636-644 PMCID: PMC5895542.

51. Koslovsky, MD*, Hebert E, **Swartz MD,** Chan W, Leon-Novelo L, Wilkinson AV, Kendzor DD, Businelle, MS. (2018) The time-varying relations between risk factors and smoking before and after a quit attempt. Nicotine & Tobacco Research. 20(10): 1231-1236. PMCID: PMC6121909
52. Koslovsky MD[*], **Swartz MD**[#], Chan W, Leon-Novelo, L, Wilkinson A, Kendzor D, Businelle M. (2018) Deterministic variable selection for logistic regression models. Journal of Statistical Computation and Simulation 88(3) 575-596. PMCID: PMC5935273.
53. 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] PMCID: PMC5903880.

2018

54. 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. PMCID: PMC5853496
55. Greene TJ[*], DeSantis SM, Fox EE, Holcomb JB, **Swartz MD**[#] (2018). 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 PMCID: PMC6020820.
56. Yu X*, Chan W, **Swartz M,** Piller, LB. (2018) "Joint models of dynamics of mothers' stress and children's disease" Communications in Statistics – Simulation and Computation 48:2775-2790.
57. 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] PMID 29544377.
58. 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. PMCID: PMC6008513
59. Yunxi Zhang, Soeun Kim, Ye Lin, George Baum, Karen M. Basen-Engquist & Michael D. Swartz (2019) 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, 48:8, 2523-2537, DOI: 10.1080/03610918.2018.1458132.

60. Cantle PM, Hurley MJ*, **Swartz MD**, Holcomb JB. (2018) Methods for early control of abdominal hemorrhage: An assessment of potential benefit. Journal of Special Operations Medicine, 18 (2):98-104 PMID 29889964.
61. Aggarwal P*, Zaveri JS, Goepfert RP, Shi Q, Du XL, **Swartz M**, Gunn GB, Lai SY, Fulller CD, Hanna EY, Rosenthal DI, Lewin JS, Piller LB, Hutcheson KA. (2018) Symptom Burden Associated with Late Lower Cranial Neuropathy in Long-Term Oropharyngeal Cancer Survivors. JAMA Otolaryngology-Head & Neck Surgery. 144(11):1066-1076. PMCID: PMC6248190.
62. Advani SM*, Advani P, DeSantis SM, Brown D, VonVille, H, Lam M, Loree J, Sarhekeh AM, Bressler J, Lopez DS, Daniel-MacDougall CR, **Swartz MD**, Kopetz S. (2018) Clinical, Pathological and Molecular Characteristics of CpG island mythlator phenotype in colorectal Cancer: A systematic Review and Meta-analysis. Translational Oncology. 11(5): 1188-1201. PMCID: PMC6080640.
63. Nguyen C*, Lairson DR, **Swartz MD**, Du XL. (2018) Risks of major long-term side effects associated with androgen-deprivation therapy in men with prostate cancer. Pharmacotherapy. 38 (10): 999-1009 PMID 30080934.

2019

64. **Swartz MC**, Lewis ZH, **Swartz MD**, Martinez E, Lyons EJ. (2019) Brief Report: Active ingredients for adherence to activity monitor-based physical activity intervention in older adults. Journal of Applied Gerontology. PMCID: PMC8100986.
65. Song J*, **Swartz MD**, Gabriel KP, Basen-Engquist K. (2019) A semiparametric model for wearable sensor-based physical activity monitoring data with informative device wear. Biostatistics Feb 5 doi: 10.1093/biostatistics/kxx073. PMCID: PMC6409419.
66. Nguyen C*, Lairson DR, Swartz MD, Du XL. (2019) 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. PMID: 30698095 (funded by CPRIT).
67. 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. (2019) Maternal lactase polymorphism (rs4988235) is associated with neural tube defects in offspring in the National Birth Defects Prevention Study. Journal of Nutrition. PMID 30689919.
68. Patel CN*, **Swartz MD**, Tomasek, JS, Vincent, LE, Hallum WE, Hocomb JB. (2019) The Effects of Missed Doses of Antibiotics on Hospitalized Patient Outcomes. Journal of Surgical Research 223: 276-283. PMID 30502260.

69. Lei R*, **Swartz MD**, Harvin J, Cotton B, Holcomb J, Wade C, Adams S. (2019) Stop the Bleed training empowers learners to act to prevent unnecessary hemorrhagic death. The American Journal of Surgery. 217 (2): 368-372. PMID 30292328.
70. Nguyen C*, Lairson DR, **Swartz MD**, Du, XL. (2019) Racial, Socioeconomic and geographic disparities in the receipt, timing to initiation and duration of adjuvant androgen deprivation therapy in men with prostate cancer. Journal of Racial and Ethnic Health Disparities. 6(1): 133-142. PMID 29959759 (Funded by CPRIT).
71. John J*, **Swartz MD**, Hoelscher D, Huber C, Sharma S. (2019) Measures of physical activity and body mass index in hospital workers: a multisite cross-sectional study. Journal of Occupational and Environmental Medicine. Epub. PMID 30817379.
72. Balogun T*, Troisi C, **Swartz MD**, Lloyd L, Beyda R. (2019) Factors associated with knowledge of where to access health care among youth in juvenile detention: a mixed methods study. International Journal of Adolescent Medical Health. Epub. PMID 30888964.
73. Aggarwal P*, Zaveri JS, Goepfert RP, Shi Q, Du XL, **Swartz M**, Lai Sy, Fuller CD, Lewin JS, Piller LB, Hutcheson KA. Swallowing-Related outcomes associated with late lower cranial neuropathy in long-term oropharyngeal cancer survivors: cross-sectional survey analysis. (2019) Head and Neck. Epub. PMCID: PMC4326325.
74. Hoang TT*, Lei Y, Mitchell LE, Sharma SV, **Swartz MD#,** Waller, DK, Finnell RH, Benjamin RH, Browne ML, Canfield MA, Lupo PJ, McKenzie P, Shaw GM, Agopian AJ, National Birth Defects Prevention Study. (2019) Maternal genetic markers for risk of celiac disease and their potential association with neural tube defects in offspring. Molecular Genetics and Genomic Medicine. Epub. PMCID: PMC6565562.
75. Lopez A*, Benjamin RH, Raut JR, Ramakrishnan A, Mitchell LE, Tsao K, Johnson A, Langlois PH, **Swartz MD**, Agopian AJ. (2019) Mode of delivery and mortality among neonates with gastroschisis: a population-based cohort in Texas. Paediatric Perinatal Epidemiology. 33 (3): 204-212. PMCID: PMC7028334.
76. Huang TT*, Manso PH, Edman S, Mercer-Rosa L, Mitchell LE, Sewda A, **Swartz MD#,** Fogel MA, Agopian AJ, Goldmuntz E. (2019). Genetic variants of HIF1α are associated with right ventricular fibrotic load in repaired tetralogy of Fallot patients: a cardiovascular magnetic resonance study. Journal of Cardiovascular Magnetic Resonance. 21(1): 51-60. PMCID: PMC6699069.
77. Benjamin RH, Yu X, Navarro Sanchez ML, Chen H, Mitchell LE, Langlois PH, Canfield MA, **Swartz MD#**, Scheuerle AE, Scott DA, Northrup H, Schaaf CP, Ray JW, McLean SD, Lupo PJ, Agopian AJ. (2019) Co-occurring defect analysis: A platform for analyzing birth defect co-occurrence in registries. Birth defects Research. Epub. Ahead of print doi.org/10.1002/bdr2.1549. PMCID: PMC7814855.

78. Advani S*, Advani P, Brown D, DeSantis SM, Korphaisarn K, VonVille HM, Bressler J, Lopes DS, Davis JS, Daniel CR, Sarshekeh AM, Braithwaite D, **Swartz MD**, Kopetz, S. (2019) Global differences in the prevalence of the CpG island methylator phenotype of colorectal cancer. BMC Cancer 19(1):964 PMCID: PMC6796359.
79. Benjamin RH, Lopez A*, Mitchel LE, Tsao K, Johnson A, Langlois PH, **Swartz MD**, Agopian AJ. (2019) Mortality by mode of delivery among infants with spina bifida in Texas. Birth Defects Research. 111(19):1543-1550. PMCID: PMC7741424.
80. **Swartz MC**, Allen K, Deer RR, Lyons EJ, **Swartz MD**, Clifford T. (2019) A narrative review on the potential of red beetroot as an adjuvant strategy to counter fatigue in children with cancer. Nutrients. 11(12). Pii:E3003. PMCID: PMC6949985.
81. Sonawane K, Nyitray AG, Nemutlu GS, **Swartz MD**, Chhatwal J, Deshmukh AA. (2019) Prevalence of human papillomavirus infection by number of vaccine doses among US women. JAMA Network Open. 2(12): e1918571. PMCID: PMC6986697.

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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

2. Grants and Contract Awards

a. Current Funding:

Role: MPI 09/18/2026-05/31/2027 1.8CM
NICHD 1R44HD122606 $347,989

Effects of Early Prolonged Skin-to-Skin Care Within the Skincubator in Very Preterm and Extremely Preterm Infants The Skincubator wearable incubator may enable immediate and prolonged skin-to-skin care for the 64,000 extremely and very preterm infants born annually in the United States who currently receive minimal skin-to-skin care during their critical first days of life despite World Health Organization recommendations of 8+ hours daily. This revolutionary device maintains incubator-level temperature and humidity control while enabling safe parent-infant contact. The proposed clinical trials planned to demonstrate increased skin-to-skin care duration and improved feeding progression, will potentially reduce the USA $25.2 billion annual cost of preterm birth complications. By transforming neonatal intensive care from technology-induced separation to technology-supported connection, this innovation may improve neurodevelopmental outcomes, reduce hospital stays, and establish a new standard of care that could benefit millions of preterm infants globally each year.

Role: Co-Investigator, DCC Director 06/01/2026-02/28/2031 1.2CM
(PI Rysavy)
NICHD 1R01HD122207 $2,514,050

Humidity in Incubators for Tiny Infants (HUMIDITI) Trial This multicenter trial within an established research network will evaluate a simple intervention used in every neonatal intensive care unit to care for infants born extremely early (22-24 weeks of pregnancy). The study will use a novel design to learn about the effects of higher (90%) compared to lower (70%) humidity in incubators to reduce death, morbidity, and healthcare costs. The results will help doctors provide better care for thousands of the most vulnerable babies born each year, who make up one-fifth of infant mortality in the U.S.

Role: Co-Investigator (PI Maria Fernandez DCC PI: Jose-Miguel Yamal)	12/22/2023-12/31/2025	3 CM
Multiple Sclerosis Association of America AGT012240	$2,944,773	

Multiple Sclerosis Implementation Network
The primary goal of MSIN is to improve Multiple Sclerosis (MS) practice by creating and supporting a practice-based research network providing a collaborative learning environment for clinical partners that provide care for patients with MS across the country to advance MS research and practice. We aim to achieve this goal through three specific aims: 1) Establish the MSIN - a Practice Based Research Network of clinical partners that provide care for patients with MS. 2) Establish an Implementation Research Program (IRP) enabled to conduct rapid-cycle implementation research; and conduct an initial implementation research study. 3) Generate, synthesize, and translate evidence for best practices.

Role: PI of DCC (Clinical PI: Cox)	03/08/2018 - 02/28/2021 (NCE to present)	2.40 CM
MEDICAL TECHNOLOGY ENTERPRISE W81XWH-15-9-0001	$84,787	

Agreement between the Medical Technology Enterprise Consortium "MTEC" and its members
Split agreement with McGovern Medical School, Center for Translational Injury research, Department of Surgery to investigate the use of Stem cells to improve\reduce complications from trauma.

b. Completed Funding:

Role: Co-Investigator (PI: DeSantis)	8/10/2022-8/09/2027	1.20 CM
NIH/NHLBI 1 U24 HL157310-01A	$1,905,212	

Trauma Resuscitation with Group O Whole Blood or Products (TROOP) a pragmatic, multicenter, phase III randomized clinical trial to evaluate the clinical effectiveness and safety of whole blood, compared with component blood therapy in trauma patients predicted to require large volume blood transfusions

Role: Co-Investigator (PI: Boerwinkle)	09/21/2021-09/20/2025	1.20 CM (2021-2023)
DHHS/ONC 90PH0003/01-00	$9,754,247	

The Public Health Informatics & Technology (PHIT) Workforce Development Program
The goal of this project is to focus on reducing the nation's health disparities and inequities by expanding the number of public health professionals trained in

public health informatics and technology. I was funded for 2 years while we developed course materials. After materials were developed, effort coverage was reduced, but I continued to stay engaged with the grant revising materials as needed for the duration.

Role: Co-Investigator (PI: Boerwinkle) TDSHS (New) HHS000866600001	08/07/2020 – 03/24/2025 $6,702,047	3.0 CM

Texas Coronavirus Antibody Response Surveillance
This project will track how SARS-CoV-2 infections progress through the population over time in order to plan for future health care needs and understand risk factors for clinical disease, such as age, social exposures, or underlying health outcomes.

Role: Co-Investigator (PI: **Agopian**) NIH 1R01HD093660-02	08/25/2018 - 06/30/2023 $339,901	1.20 CM

A multidisciplinary approach for identifying and characterizing novel congenital malformation syndromes
Over 50% of children with multiple malformations seen in medical genetics clinics for a suspected genetic syndrome never receive a diagnosis, which leaves unanswered questions about prognosis and medical/reproductive planning. Our study is relevant to public health because we will identify new multiple malformation syndromes (MMS), characterize these MMS in a clinical population, and explore the genetic underpinnings of these syndromes. These results would lead to: 1) expectations for disease progression and improved medical management and reproductive planning and 2) the foundation needed for the development of therapies that could improve the health of affected patients and/or prevent the occurrence of these MMS.

Role: Co-Investigator\subcontract PI (PI: Whitworth) NIH 1R01ES028842-01A1	03/01/2019 - 02/29/2024 $258,466	2.16 CM

Fine Particulate Matter, Fetal Growth & Neurodevelopment: Examining Critical Windows of Susceptibility
Both pre- and post-natal exposure to particulate matter have been associated with adverse child neurodevelopmental outcomes, though important questions regarding critical windows of exposure remain unanswered. The primary goal of the proposed study is to evaluate critical windows of exposure to PM with aerodynamic diameter <2.5 microns (PM2.5) on child cognitive and behavioral outcomes at ages four and seven, and a secondary goal is to examine whether these associations are moderated by (or in the case of prenatal exposures moderated by and mediated through) fetal growth. Given rapid development during fetal development, infancy and early childhood, a more complete understanding of the mechanism through which pre- and postnatal air pollution

exposures affect child neurodevelopment, as well as the important windows of susceptibility, could inform interventions aimed at reducing early exposures and ultimately decreasing disease burden.

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: PI of Subcontract (PI: Kendzor) 07/08/2015-06/30/2022 Effort: 5%
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: Co-investigator (PI: Nyitray) 09/17/2018-08/31/2021 Effort: 5%
Med. College of Wisconsin/NIH $350,868

Determining the Accuracy of Self- and Partner Anal Exams for Detecting Anal Abnormalities
The long-term goal of this study is to decrease morbidity and mortality from anal cancer by increasing detection of anal canal tumors through self- or partner-palpation of the anal canal. Our overall objective is to determine the viability of the ASE and ACE by assessing exam accuracy and consistency of results in two clinic sites.
Note: Nyitray, the PI for the Prevent anal cancer palpation study changed institutions to the Medical College of Wisconsin, and transitioned statistical support, so the study is ongoing, but I am no longer funded on it. I designed the study in collaboration with Nyitray, helped set up the study and facilitated transition to a statistician at MCOW.

Role: Co-investigator (PI: Nyitray) 9/15/2017-08/31/2021 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
The purpose of this research study is to find ways to screen for anal cancer among gay, bisexual, and other men who have sex with men (MSM) and transgender persons. This study will try to find out if persons will do annual anal cancer screening, what factors are associated with repeated screening, and how

this affects a person's decision to have high-resolution anoscopy.

Role: Co-Investigator (PI: Gonzalez) 09/26/2017-05/31/2021 Effort: 10%
NIH 5R01MD010733-03 $542,318

M-Health to Increase Service Utilization Among Recently Incarcerated Homeless Adults

Case management and crisis counseling services reduce mental health and substance abuse problems, homelessness, and re-incarceration among recently incarcerated homeless adults, a disproportionately high minority population with substantial health disparities. There are many barriers (e.g., limited transportation, inability to schedule and keep appointments, limited knowledge of available services) that prevent recently incarcerated homeless adults from obtaining these needed services and few studies have identified predictors of re-arrest and continued homelessness. The 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 (e.g., alcohol/drug use, social support, psychological distress, quality of life) that predict continued homelessness and re-arrest.

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

Prehospital Resuscitation on Helicopter Study (PROHS) NIH/NHLBI 5U01HL077863

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: Collaborator (PI: John Holcombe) Center for Translational Injury Research		Effort: 20% 6/1/2015- 5/1/2015- 5/30/2018

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 sponsored 20% of my salary for collaborations with the center's faculty and students.

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, Center for Medicare & Medicaid Services	$2,078, 000	

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 are 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:

R01 (Swartz) 02/01/2022 – 01/31/2027 0.60
MD Anderson Cancer Center / $255,457 calendar
NIH
Using wearables with personalized inference models to objectively evaluate the performance status of AYAs with cancer in real-life conditions
The subcontract responds to two aims: to develop ML models to objectively stratify AYAs with cancer by functional status using wearable sensors and to establish a protocol to monitor performance changes and administer functional capacity tests remotely, to aid clinical decision-making.
Role: Subcontract PI, Co-Investigator

R01 (Swartz) MD Anderson Cancer Center / NIH	12/01/2021 – 11/30/2026 $1,945,146	1.44 calendar

Impact of COVID-19 on Racial Disparities, Primary Care Utilization, Health Care Cost, and Health Outcomes among Racial/Ethnic Minority Groups Treated at FQHC

The overarching goal of the project is to leverage large-scale longitudinal EMR data to identify COVID-related health disparities, then integrate self-reported and objective measures to characterize the disparities. This will inform the implementation of a coordination of care and self-management intervention to address minority health disparities.

Role: Co-Investigator

R01HD104829 (Ganduliglia Cazaban) NIH	12/01/2021 – 11/30/2026 $3,877,950	1.20 calendar

Identifying Hospital Factors Associated with Improved Outcomes among Infants with Birth Defects

The goal of the project is to identify modifiable factors to improve survival and outcomes among infants with birth defects. By identifying delivery center characteristics that improve outcomes, this project is expected to facilitate improved delivery planning and have a direct and sustained impact on the field.

Role: Co-Investigator

R01 (Roberts) NIH	04/01/2022 – 03/31/2026 $1,560,000	0.60 calendar

Big Data for Small Disease: NLP-based transfer learning for low-prevalence phenotypes

This proposal seeks to identify generalizable principles for robust transfer learning for NLP-based phenotyping.

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**[+] "Variable Selection in Genetics from Stochastic Search Gene Suggestion to TRIO_RVEMVS", at Department of Statistics, National Cheng Kung University, Tainan Taiwan, October 29, 2021 (Virtual)
2. **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
3. **Invited Panelist** (in a panel of 6) for ASPO Junior Members Session: "A Roadmap to Academic and Research Environments: Identifying and Choosing the Best Fit for your Career Goals." American Society of Preventive Oncology meetings, 2017, Seattle, Washington (Organized by Scherezade Mama, DrPH and Maria Swartz, PhD, MPH, RD)
4. 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
5. **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
6. **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
7. **Swartz MD**[+]. "Stochastic Search Gene Suggestion and Applications to Cancer" Houston Area Statistical Association, Houston, TX, 9/2013
8. **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
9. **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
10. **Swartz MD**[+]. "Developing Bayesian Variable Selection Methods for Genetics and Epidemiology" presented at City of Hope, Division of Cancer Etiology, Duarte, CA, 6/2010
11. **Swartz MD**[+]. "Bayesian Variable Selection in Practice" Presented at Rice University, Department of Statistics, Houston, TX 4/2010
12. **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

13. **Swartz MD**[+]. "Stochastic Search Gene Suggestion: Bayesians and Biology Meet again!" (*Biometrics* editor-invited session) Joint Statistical Meetings Salt Lake City, UT 8/2007
14. **Swartz MD**[+]. "Stochastic Search Gene Suggestion: A Bayesian Hierarchical Model for Gene Mapping" (Invited Session) International Biometrics Conference, Montreal, Canada 7/2006
15. **Swartz, MD**[+]. "Submitting a K07" Invited presentation for the U.T. M. D. Anderson post-doctoral association, 7/2006
16. **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. **Contributed Abstracts and Conference Presentations** (reverse chronological order; *=student, +=presenter)
    1. Zhang, S[*+], Moody, K, Schadler K, Andersen, C, Kellye D, Rajan A, Gonzalez Villarreal, E, Wells SJ, Swartz M Merriman K, Swartz MC Enabling pediatric cancer prevention research across multiple resources: a reusable Pipeline for Data Integration and Harmonization. Innovations in Cancer Prevention and Reseearch Conference IV. October 2-3, 2023.
    2. Rector, AM[*+], Whitworth, KW, Iniguez, C., Chauhan, SP, Monica, G, Ibarluzea, J, Ish, J, Symanski, E and **Swartz, MD** (2021). Knot placement in the distributed lag nonlinear models framework. In 33rd annual conference of the international society for environmental epidemiology.
    3. Wells SJ[+], Brown BD, Mahadeo KM, Schadler KL, Chandra J, **Swartz MD**. Pre-COVID-19 food insecurity prevalence and risk factors in caregivers of pediatric cancer patients at a children's cancer hospital. American Society of Clinical Oncology, October 2020 (Virtual).
    4. Gallardo K[*+], Santa DM, Narendorf S, Markham C, **Swartz MD**. Exploring supportive familial relationships among youth experiencing homelessness: A mixed-methods study. APHA Virtual Annual Meeting and Expo, October 2020.
    5. Ish J[*+], Rector A[*], Iñiguez C, **Swartz MD**, Guxens M, Ibarluzea J, Symanski E, Chauhan SP, Whitworth KW. Identifying sensitive windows of exposure to NO2 and fetal growth trajectories in a Spanish population-based birth cohort. ISEE Virtual Conference, August 2020.
    6. Patt DA[*+], He B, Garey JS, Rowan P, **Swartz MD**, Linder S, Brooks BD, Neubauer MA. Driving quality improvement: How clinical decision support can facilitate compliance with evidence-based pathways. American Society of Clinical Oncology, May 2020 (Virtual).
    7. Langabeer DM[*+], Krause T, Ganduglia C, Cecilia M, **Swartz MD**, Lopez DS, Bodurka DC. Are symptoms distinguishable in ovarian cancer? A nested case control study of insurance claims. American Society of Clinical Oncology, May 2020 (Virtual).

8. Swartz MC, Chou LN, **Swartz MD**, Lyons EJ, Mehta H, Karmarkar A, Middleton A, Basen-Engquist K, Giordano SH. Goodwin J. A Retrospective Study of Administrative Data to Identify Factors Associated with Future Disability Status among Older Colorectal Cancer Survivors. American Society of Preventive Oncology Annual Meetings, March 2020 (Virtual).
9. Aggarwal P[*+], Goepfert RP, Garden AS, Garg N, Zaveri J, Du XL, **Swartz MD**, Lai S, Fuller CD, Ferrarotto R. Risk and Predictors of Late Lower Cranial Neuropathy in Long-term Oropharyngeal Cancer Survivors Treated with Definitive Radiotherapy: A Retrospective Cohort Study among 1,988 Survivors. American Society for Radiation Oncology meetings October 2020 (Virtual).
10. Christopherson U[+], Wells S, Parker N, Lyons E, **Swartz MD**, Blozinski A[*], Basen-Engquist K, Peterson S, Swartz M. The use of Videoconferencing and Active Video Games to Improve Physical Function and Health Outcomes Among Adolescent and Young Adult Cancer Survivors: A Systematic Review, American Congress of Rehabilitation Medicine, October 2020 (Virtual).
11. Langabeer DM[*+], Cazaban CG, **Swartz MD**, Lopez D, Alagappan K, Krause TM. Do Women Present to the Emergency Department (ED) with Symptoms Prior to Diagnosis of Ovarian Cancer? A Secondary Analysis of a Retrospective Study of Symptoms Experienced Prior to Diagnosis of Ovarian Cancer. American Academy of Emergency Medicine Annual Scientific Assembly, April 2020 (Virtual).
12. Swartz MD[+], Candid Insights on Becoming Tenured Faculty at a State Institution. Joint Statistical Meetings 2020 (Virtual)
13. Swartz MD*****, Rubrics and Flipped Classrooms: What are They and How Do They Work in Biostatistics Classes? Joint Statistical Meetings 2020 (Virtual)
14. **Swartz MD*,** Rubrics and Flipped Classrooms: What are They and How Do They Work in Biostatistics Classes? Joint Statistical Meetings 2020 (Virtual)
15. Balogun T[*+], **Swartz MD**, Troisi CL, Beyda R. Regional Variation in Costs of Major Congenital Heart Defects Among Infants in Texas. APHA's Annual Meeting and Expo, November 2019
16. Gallardo KR[*+], Maria DS, Markham CM, Narendorf S, **Swartz MD**, Barman-Adhikari A, Hsu HT. Human Papillomavirus Vaccination Uptake Among Homeless Young Adults. Annals of Behavioral Medicine, 2019.
17. Swartz MC[+], Chou LN, **Swartz MD**, Mehta H, Lyons EJ, Giordano S, Goodwin J. A Retrospective Study to Identify Factors Associated with Disability Status Among Older Breast Cancer Survivors. American Congress of Rehabilitation Medicine, November 2019
18. Nguyen L[*+], Franzini L, Cazaban CG, **Swartz MD**, Le P, Gardiner H, Averiss I, Lairson D. Regional Variation in Costs of Major Congenital Heart Defects Among Infants in Texas. AcademyHealth Annual Research Meeting, Washington D.C., June 2019

19. Nguyen L[*+], Averiss I, Cazaban CG, Franzini L, Lairson D, **Swartz MD**. Identification of Major Congenital Heart Defects in Infants in a Linked Data Set of Public Administrative Data and Vital Records. AcademyHealth Annual Research Meeting, Washington D.C., June 2019
20. Nguyen L[*+], Franzini L, Cazaban CG, **Swartz MD**, Le P, Gardiner H, Averiss I, Lairson D. Temporal and Regional Variation in the Prevalence of Major Congenital Heart Defects Among Texas Medicaid Insured Infants. AcademyHealth Annual Research Meeting, Washington D.C., June 2019
21. 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
22. **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
23. 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.
24. Greene TJ[*+], DeSantis SM, **Swartz, MD** Propensity Scoring Methods for Ordinal Treatments. Joint Statistical Meetings, Chicago Il, August 2016
25. Koslovsky, M[*+]. **Swartz MD**, Deterministic Bayesian Variable Selection for Binary Outcomes. Joint Statistical Meetings, Seattle WA, August 2015
26. 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).
27. **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.
28. **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.
29. 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.
30. 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

31. Beyda RM[+]*, Benjamins LJ, Symanski E, **Swartz M**, Risser WL, Eisssa M. Assessing Azithromycin Efficacy in Treatment of Chlamydia Trachomatis Presented in NASPAG, April 2013
32. **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.
33. **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
34. **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
35. **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
36. **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
37. **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
38. **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
39. **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
40. **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
41. **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

42. 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
43. **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
44. **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
45. **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
46. **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
47. **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
48. **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
49. **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
50. **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
51. **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

- **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	3	100%	Fall	4.77	47

Analysis 1			2012		
PH1820: Applied Statistical Analysis 1	3	100%	Spring 2013	5.00	36
PH1820: Applied Statistical Analysis 1	3	100%	Fall 2013	4.78	47
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
PH 9996 Capstone	3	33.3%	Spring 2017	3.88	30 (10)
PH1820: Applied Statistical Analysis 1	3	100%	Fall 2017	4.89	28
PH 9996 Capstone (online)	3	11%	Spring 2018	3.6	139 (14)
PHM1690: Introduction to Biostatistics in Public Health	4	50%	Fall 2018	4.04	88
PHM 1700: Intermediate Biostatistics	4	100%	Spring 2019	4.36	49
PHM 1820: Regression Techniques	3	100%	Fall 2019	4.78	43
PH 1820L Applied Linear Regression	3	100%	Spring 2020	4.76	25
PHW 1700 Intermediate Biostatistics (Online, NEW format)	3	100%	Fall 2020	4.46	42
PHW 1820 Applied Linear Regression (Online, NEW format)	3	100%	Spring 2021	4.58	38
PHW 1700 Intermediate Biostatistics (Online)	3	100%	Fall 2021	3.77	34

- **Partial Classes**
  a. Teacher to teacher series: 1 lecture (invited) fall 2013 and spring 2014: "Effective Teaching for Biostatistics and Other Quantitative Topics"
  b. Visiting Panel Speaker for PH1997 Teaching and Learning for Biostatistics (1

class session)

- **Webinars**
  a. "Rubrics and Flipped Classrooms: What are they and how do they work in biostatistics classes?" Webinar for Teaching Statistics in Health Sciences section of American Statistical Association June 11, 2021 2pm ET (invited).
- **Thesis/ Dissertation Supervisor* (Students starting after Fall 2023 available in online FIR and on request)**

	Student's Name	Degree Program	Study Period	Status or month/year of graduation
1.	Brown, Derek	PhD Biostatistics (co-directing with DeSantis).	May 2018-May 2019	Graduated May 2019; Dissertation: Novel Propensity Score Methods for multiple and Continuous Treatments: applications to EHR Data
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.	Cho, Sungjin (Elin)	MS Biostatistics	Jan 2021-Aug 2022	Graduated August 2022
5.	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"
6.	Greene, Thomas J.	PhD Biostatistics (Co-directing with DeSantis)	Aug 2015-Dec 2017	Graduated December 2017; dissertation: Utilizing Propensity Score Methods for Ordinal Treatments and Prehospital Trauma Studies

7.	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
8.	Johnson, Jada	PhD Biostatistics (co-directing with Dr. DeSantis	January 2018-Dec 2020	Graduated December 2020: An Integrated Genetic Propensity Score Approach to Adjust for Population Stratification in Genetic Association Studies
9.	Koslovsky, Matthew D.	PhD Biostatistics	Aug 2013-Dec 2016	Graduated December 2016: Deterministic Variable Selection Developments for Binary Outcomes
10.	Kovyrshina, Tatiana A.	MS Biostatistics	Jan 2013-Aug 2014	Graduated Aug 2014; Thesis "Molecular Pathway Activation in Cancer and Tissue Following Space Radiation Exposure"
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 Work Place Intervention and Change in Metabolic Equivalence of Task Using Multilevel Data
13.	Niu, Jiangong	MS Biostatistics	Jan 2011-Dec 2011	Graduated Dec 2011; Thesis: "Comparison for

				Two Statistical Methods for Rare Variant Association Analysis”
14.	Ordonez, Adriana L.	PhD Biostatistics	Aug 2010-May 2019	Graduated May 2019 Dissertation: Stochastic Search Variable Selection Applied to a Bayesian Hierarchical Generalized Linear Model for Dyads
15.	Pan, Meiling	MS Biostatistics	May 2014-May 2016	Graduated May 2016 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.	Rector, Alison	PhD Biostatistics	August 2018-May 2023	Graduated Spring 2023
19.	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 AdolescentYouth about Initiation of Sex
20.	Juntao Yan	MPH Biostatistics	June 2021-December 2022	Graduated December 2022.
21.	Yue Shi	MS Biostatistics	Jan 2021-May 2021	Graduated; Thesis: Assessing the relationship between temperature and

				Covid-19 daily cases.
22.	Song, Jaejoon	PhD Biostatistics	Aug 2013-Aug 2017	Graduated Aug 2017 Dissertation: Statistical methods for wearable sensor data.
23.	Zhao, Yang	MS Biostatistics	Aug 2011-Aug 2013	Graduated Aug 2013; Thesis: "Evaluation of Clinical Trial Designs for the Development of Targeted Agents"
24.	Zheng, Yefei	PhD Biostatistics	Jan 2013-December 2021	Graduated December 2021.

- **Academic Advisor* (Students starting after Fall 2023 available in online FIR and on request)**

	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 (shifted 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.
3.	Chan, Winston J.	MPH Biostatistics	Aug 2012-Dec 2014	Graduated 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-August2016	Chose different advisor, Kept as member
6.	Jiang, Xinyang	PhD Biostatistics	Aug 2019-May 2021	Chose different advisor
7.	Kim, Ju Yeong	MS Biostatistics	Aug 2014-Spring 2017	Developing proposal under Dr. Kayo Fujimoto
8.	Kaur, Kimenpreen	MS Biostatistics	Aug 2021-August 2023	Graduated August 2023
9.	Kwok, Daisy Z.	MS Biostatistics	Aug. 2021-Aug 2023	Graduated August 2023
10.	Lin, Ye	MS Biostatistics	Aug 2012-	Graduated May 2015

			May 2015	
11.	Liu, Lizhong	PhD Biostatistics	Aug 2019-Summer 2023	Graduated 2023
12.	Liu, Yuanyuan	PhD Biostatistics	2015-2018	Completed qualifying exams established committee
13.	Liao, Yunqi (Vicky)	MS Biostatistics	Jan 2016-August 2017	Graduated August 2017
14.	Lopez-gamundi, Paula	MS Biostatistics	Aug 2016-May 2019	Graduated May 2019; co directed thesis.
15.	Maity, Suman	MPH Biostatistics	Aug 2017-Dec 2018	Graduated Dec 2018
16.	Makashir, Sumit B.	MPH Biostatistics	Aug 2011-Aug 2013	Graduated Aug 2013, Capstone.
17.	Qiao, Min	PhD Biostatistics	Jan 2014-Aug 2020	Graduated August 2020
18.	Khajeh-Sharafabadi, Mobin	MS Biostatistics	Aug 2021-May 2023	Graduated May 2023
19.	Rector, Alison	PhD Biostatistics	Aug 2018-Spring 2023	Graduated Spring 2023
20.	Retamoza, Cristina Olivia	MS Biostatistics	Fall 2015-Spring 2016	Left program for personal reasons
21.	Samarakoon, Lassana	MPH Biostatistics	Fall 2016-May 2018	Graduated May 2018
22.	Sedory, Abigail	PhD Biostatistics	Jan 2017-May 2020	Graduated May 2020
23.	Shi, Yue	MS Biostatistics	Aug 2019-2021	Graduated May 2021
24.	Wu, Yiling	MPH Biostatistics	Aug 2014-May 2015	Graduated Capstone
25.	Zhang, Jun	PhD Biostatistics	Aug 2013-Dec 2016	Formed Dissertation committee with different advisor:
26.	Zhang, Wen	PhD Biostatistics	Aug 2018-December 2022	Graduated December 2022
27.	Zhang, Shiming	PhD Biostatistics	Aug 2020-Present	Coursework
28.	Zhu, Huirong	PhD Biostatistics	Aug 2011-May 2013	Passed Preliminary Exams; Chose a different

advisor

- **Member of the Academic/Thesis/Dissertation Committees for Students* (Students starting after Fall 2023 available in online FIR and on request)**

	Student's Name	Degree Program	Study Period	Status or month/year of graduation
1.	Aggarwal, Puja	PhD Epidemiology	Jan 2017-Dec 2019	Graduated Dec 2019
2.	Archer, Natalie P.	PhD Epidemiology (Biostatistics minor)	Aug 2012-July 2015	Graduated Dec 2016
3.	Azadeh, Shabnam	PhD Biostatistics (Bioinformatics breadth)	Apr 2014-Dec 2015	Graduated Dec 2015
4.	Balogun, Titilola B.	DrPH MPACH	Oct 2015-Aug 2016	Graduated August 2016
5.	Bell, Cynthia S.	PhD Epidemiology	Aug 2015-May 2020	Graduated May 2020
6.	Beyda, Rebecca M.	MS Epidemiology (Biostatistics minor)	Apr 2012-2013	Graduated May 2013
7.	Bluethman, Shirley	PhD Behavioral Science (biostatistics minor)	May 2012-Dec 2012 (qualifying exam committee)	Graduated May 2014
8.	Cao, Ying	PhD Biostatistics (Bioinformatics breadth)	Dec 2014-Aug 2015	Graduated May 2015
9.	Carey, Felicia R.	PhD Epidemiology	Jun 2016-present	Graduated May 2017
10.	Chen, Naomi	PhD Behavioral Science (Biostatistics minor)	May 2011-Jul 2012 (qualifying exam committee)	Graduated May 2014
11.	Chen, Ting-yu	PhD Boistatistics	Aug 2018-Aug 2019	Graduated Aug 2019
12.	Crews, Jonathan	MS Epidemiology (Biostatistics Minor)	Nov 2013-May 2014	Graduated May 2014
13.	Dharia, Priyadarshani	PhD Epi (Biostatistics minor)	August 2017-Dec 2019	Graduated Dec 2019

14.	Dcruz, Jina	PHD Behavioral Science (Biostatistics Minor)	Jan 2012-Dec2012 (qualifying exam committee)	Passed Qualifying Exam
15.	Des Bordes, Jude K. A.	DrPh Community Health (Biostatistics minor)	Nov 2011-Dec 2014	Graduated Dec 2014
16.	Deshmukh, Ashish A.	PhD Management (Biostatistics minor)	Oct 2011-June 2014	Graduated Aug 2014
17.	Dong, Zhe	MPH Biostatistics	Aug 2016-May 2017	Graduated May 2017
18.	Elsayem, Ahmed	MPH MPACH	Jan 2015-May 2015	Graduated May 2015
19.	Fowler, Sharon	PhD Epidemiology	July 2017-Aug 2019	Graduated Aug 2019
20.	Gallardo, Kathryn	PHD Behavioral Science	March 2017-May 2020	Graduated May 2020
21.	Garcia, Elysia A.	PhD Biostatistics	Aug 2018-May 2020	Graduated May 2020
22.	Goddu, Sumana	MPH Epidemiology	Jan 2013-May 2013	Graduated May 2013
23.	Haddock, Nicole M.	PhD Behavioral Science	Jan 2011-Dec 2013	Graduated May 2014
24.	Hale, Jennifer	PhD Epidemiology	Jan 2021-Dec 2021.	Graduated December 2021
25.	Hoang, Thanh T.	PhD Epidemiology	Jan 2016-May 2018	Graduated May 2018
26.	Huong, Melin	PhD Biostatistics (Breadth advisor)	Aug 2016-Dec 2017	Graduated December 2017
27.	Ish, Jennifer	PhD Epidemiology	May 2019-May 2021	Graduated may 2021
28.	Jackson, Nsikak Monday	PhD MPACH	Summer 2020-present	Proposal Sep 2020
29.	Jemima John	PhD Epidemiology	Nov 2016-present	Graduated August 2017
30.	Kaipust, Christopher	MPH Epidemiology	Jan 2014-Aug 2014	Graduated Aug 2014
31.	Kanywa Jacqueline B.	MPH Epidemiology	Aug 2012-Aug 2013	Graduated Aug 2013
32.	Kimmel, Barbara	DRPH Behavioral Science	May 2014-May 2019	Graduated May 2019
33.	Langabeer, Denise	PhD Management	April 2015-May 2019	Graduated May 2019

34.	Lawler (Morales), Sylvia M.	PhD Behavioral Science	Jan 2013-Jan 2015	Passed Preliminary Exam Graduated May 2019
35.	Li, Chang	PhD Epidemiology	Jan 2017-Aug 2018	Graduated Aug 2018
36.	Liang, Fu-Wen	PhD Biostatistics	Jan 2012-Aug 2012	Graduated Aug 2012
37.	Liu, Zhiyue	PhD Epidemiology	Aug 2014-Dec 2016	Graduated Dec 2016
38.	Varuna Manthena	MS Epidemiology	Feb 2015-Dec 2015	Graduated Dec 2015
39.	McMillan, Jermaine	PhD Management and Policy Sciences	Aug 2019-May 2020	Graduated May 2020
40.	Mohammadi, Kusha Alexander	PhD Biostatistics	Aug 2019-May 2020	Graduated May 2020
41.	Navarro Sanchez, Maria Luisa	MS Epidemiology	Jan 2020-Aug 2020	Graduated August 2020
42.	Nguyen, Chi H.	PhD Epidemiology	May 2014-Dec 2017	Graduated December 2017
43.	Nguyen, Linh	PhD Management and Policy Sciences	Aug 2015-Dec 2018	Graduated Dec 2018
44.	Nguyen, Nga T. H.	PhD Epidemiology	May 2014-May 2016	Graduated May 2016
45.	Nguyen, Nhung	PhD Epidemiology	Dec 2013-May2015	Graduated May 2015
46.	Patt, Debra	PhD Management and Policy Sciences	Aug 2019-May 2020	Graduated May 2020
47.	Prasad, Sapna	PhD Management	May 2014-Aug 2017	Graduated August 2017
48.	Priyanka, Priyanka	MPH Epidemiology	May 2014-Dec 2014	Graduated Dec 2014, MPH Thesis.
49.	Qi, Xinyue	PhD Biostatistics	Aug 2019-Aug 2020	Graduated August 2020
50.	Qiu, Xueting	MS Epidemiology	August 2014-August 2015	Graduated August 2015
51.	Rao, Xiayu	MS Biostatistics	Aug 2012-Dec 2012	Graduated December 2012
52.	Rednam, Surya P. R.	MS Epidemiology	Jan 2011-May 2013	Graduated May 2013

53.	Rios, Debra	DrPH Behavioral Science	Aug2014-Dec 2016	Graduated December 2016
54.	Sabella, Theresa	PhD Management and Policy Sciences	Sum 2020-present	Graduated Spring 2021
55.	Sauceda, Viridiana I.	MS Epidemiology	Aug 2011-Dec 2015	Committee Discontinued
56.	Shailesh, Advani	PhD. Epidemiology	Jan 2014-Dec 2017	Graduated Dec 2017
57.	Christine Spencer	PhD Epidemiology	Fall 2015-Dec 2017	Graduated December 2017
58.	Tai, Hsiangyi	DrPH Health Promotion/Health Education	Aug 2017-Aug 2018	Graduated Aug 2018
59.	Tran, Ly	PhD Epidemiology	Dec 2013-August 2014	Graduated Aug 2014
60.	Truong, Van T.T.	MS Epidemiology	Jan 2014 - August 2014	Graduated Aug 2014
61.	Ukhanova, Maria A.	PhD Health Services Research	May 2014-Dec 2017	Graduated December 2017
62.	Wang, Zhe	PhD Epidemiology (minor advisor)	August 2016-Dec 2018	Graduated December 2018
63.	Winston, Courtney	DrPH Health Promotion/Health Education	Aug 2012-Dec 2012	Graduated Dec 2012
64.	Yang, Christine	MS Epidemiology	May 2014-May 2015	Graduated May 2015
65.	Yang, Yunju	PhD Epidemiology	Jan 2019-May 2020	Graduated May 2020
66.	Yay Donderici, Elifnur	PhD Management and Policy Sciences	Jan 2018-Aug 2020	Graduated August 2020
67.	Joy Yoo	MS Biostatistics	Jan 2022-Dec 2022	Graduated Dec 2022.
68.	Yu, Duo	PhD Biostatistics	Aug 2020-Summer 2021	Graduated Summer 2021
69.	Yu, Xiaoying	PhD. Biostatistics	November 2014-May 2015	Graduated May 2015.

- **Junior Faculty Mentoring at UT HEALTH**
  a. Soeun Kim, PhD, Assistant Professor, Department of Biostatistics School of Public Health, February 2017-September 2018 (left for family reasons.)
  b. MinJae Lee, Assistant Professor, Department of Biostatistics, Epidemiology and Research design, McGovern School of Medicine, June 2017-Aug 2020
  c. Luis Leon-Novelo, Assistant Professor, Department of Biostatistics and Data

Science, School of Public Health, April 2018-present

d. Cici Bauer, Assistant Professor, Department of Biostatistics and Data Science, School of Public Health, November 2020-present
e. Abigail Sedory, Assistant Professor, Non-tenure teaching track, Department of Biostatistics and Data Science, School of Public Health, August 2019-present

E. TEACHING RELATED SERVICE

f. 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
- 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
- Chair of Biostatistics Introductory course Development Committee September 2017-2020
- Alternate for department curriculum coordinator September 2017-present
- Chair of Online teaching/new education program development 2019-present

g. 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, 2011-2017
- Member of Departmental Admissions committee for Biostatistics graduate program 2012-2015
- Chair of Departmental Admissions committee for Biostatistics graduate program 2014-2015
- Representative of the Department of Biostatistics to the Schoolwide admissions committee 2014- 2015
- Alternate Member for Academic Council 2017-present
- Undergraduate mentor for CPRIT training grant, student: Margaret Steiner Summer 2016
- Faculty Lead Quantitative & Biostatistical Tutoring Services 2021-2025

h. 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 2014-2016 (Lead of committee to develop modules 3 and 4).
- UTHealth-MD Anderson Joint working group to establish a School of Population health (Co-convener of sub-committee on data science curriculum) 2019-2021

i. **Serving the Greater Houston Area**
   - Facilitated Enrichment group
   - 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

j. **Serving at the National Level**
   - Leading a 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
   - Leading a Round table discussion at the Joint Statistical Meetings: **Swartz, MD,** "Rubrics and flipped classrooms: What are they and how do they work in biostatistics classes?" Round table discussion at the Joint Statistical Meetings, in Philadelphia, Pennsylvania, August 2020.

F. OTHER SERVICE

- **Within the Department of Biostatistics and Data Science**
  a) 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.
  b) Member of ad hoc committee for academic misconduct Spring, 2014
- **School Wide Service**
  a) Member of the AIP review committee, School of Public Health, University of Texas-Houston 2012
  b) Internal Reviewer for the Front of the Envelope applications, internal funding mechanism for the school of public Health, University of Texas-Houston, 2012
  c) Member of Faculty Search Committee for NTT assistant professor of Biostatistics School of Public Health, University of Texas-Houston, July-September 2013
  d) Representative of the Department of Biostatistics to the Practice Council 9-1-2013-December 2017
  e) Member of Interfaculty Council June 1, 2017-August 31, 2021
  f) Department of Biostatistics and Data Sciences representative for CEPH accreditation\ self study (2018-2019 accreditation cycle; as alternate for curriculum coordinator).
  g) Member of Faculty Search Committee for Open Rank Tenure Track Position

with the Center for Community Health Impact El Paso Campus 2020-Present

h) Building Planning Committee Summer 2022-December 2022.

- **Professional Service**

a. Technical Advisory Group Member for the Houston Forensics Science Center 2023-present
b. Collaborating Statistician for the Birth Defects Epidemiology and Surveillance Branch of Texas Department of State Health Services 2013-PRESENT
c. 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
d. 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
e. 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
- Reviewer Biometrics 2020
- Reviewer Statistics in Medicine 2025
- Reviewer Statistics in Medicine 2026

f. 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

G. Continuing Education

- Introduction to Data Mining; August 8, 2004, (Toronto, Canada; offered by American Statistical Association)
- NIEHS SNPs workshop, August 14-15, 2007 (Galveston, Texas; offered by NIEHS)
- Design and Analysis of Epidemiologic Studies of Gene-Environment Interactions, August 3, 2008 (Denver, Colorado; offered by American Statistical Association)
- Generalized Linear Mixed Models: Theory and Applications, August 2, 2008 Denver Colorado; offered by American Statistical Association)
- Bayesian Adaptive Methods for Clinical Trials, August 2, 2010 (Miami Beach, Florida; offered by American Statistical Association)
- Practical Bayesian Computation, August 4, 2013 (Montreal, Canada; offered by American Statistical Association)
- Multilevel Modeling, June 1-5, 2015 (Chapel Hill, North Carolina; offered by Curran-Bauer Analytics)
- Guidelines for Using State-of-the-Art Methods to Estimate Propensity Score and Inverse Probability of Treatment Weights When Drawing Causal Inferences, August 10, 2015 (Seattle, Washington; offered by American Statistical

Association)

- Institute for Teaching and Learning, August 19-22, 2019 (Houston, Texas, offered by AAL consulting)