

## Vicki Stover Hertzberg, Ph.D.

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CONTACT INFORMATION	Nell Hodgson Woodruff School of Nursing Emory University 1520 Clifton Rd. NE Atlanta, GA 30322 USA <i>E-mail:</i> <a href="mailto:vhertzberg@emory.edu">vhertzberg@emory.edu</a>																
RESEARCH INTERESTS	<b>Biostatistics, data science, network science, and microbiome.</b> My research focuses now on developing and applying statistical methods for the analysis of network data as well as microbiome data. Specific topics include: social contact networks, infectious diseases on networks, dynamic networks, citation networks, microbiome of the airplane cabin, microbiome of the built environment. In addition I have decades of experience in collaborative research, particularly in the application of biostatistics in epidemiological and clinical sciences.																
ACADEMIC APPOINTMENTS	<table><tr><td><b>Professor</b> (with tenure) Director, Center for Data Science Nell Hodgson Woodruff School of Nursing</td><td>2015-present</td></tr><tr><td><b>Professor</b> (secondary) Department of Computer Science Emory University, Atlanta, GA</td><td>2018-present</td></tr><tr><td><b>Professor</b> (secondary) Department of Mathematics Emory University, Atlanta, GA</td><td>2018-present</td></tr><tr><td><b>Professor</b> (secondary) Department of Biostatistics and Bioinformatics Emory University, Atlanta, GA</td><td>2015-present</td></tr><tr><td><b>Associate Professor</b> (with tenure) <b>Department Chair</b> Department of Biostatistics and Bioinformatics</td><td>January 1995 - 2015 January 1995 - December 2001</td></tr><tr><td><b>Professor</b> (secondary) <b>Associate Professor</b> (secondary) Department of Mathematics and Computer Science Emory University, Atlanta, GA</td><td>2015-2018 2002-2015</td></tr><tr><td><b>Visiting Associate Professor</b> Department of Epidemiology and Biostatistics University of California, San Francisco, CA</td><td>1993 - 1994</td></tr><tr><td><b>Associate Professor</b> (with tenure) <b>Assistant Professor</b> Division of Epidemiology and Biostatistics University of Cincinnati, Cincinnati, OH</td><td>September 1986 - December 1995 September 1980 - August 1986</td></tr></table>	<b>Professor</b> (with tenure) Director, Center for Data Science Nell Hodgson Woodruff School of Nursing	2015-present	<b>Professor</b> (secondary) Department of Computer Science Emory University, Atlanta, GA	2018-present	<b>Professor</b> (secondary) Department of Mathematics Emory University, Atlanta, GA	2018-present	<b>Professor</b> (secondary) Department of Biostatistics and Bioinformatics Emory University, Atlanta, GA	2015-present	<b>Associate Professor</b> (with tenure) <b>Department Chair</b> Department of Biostatistics and Bioinformatics	January 1995 - 2015 January 1995 - December 2001	<b>Professor</b> (secondary) <b>Associate Professor</b> (secondary) Department of Mathematics and Computer Science Emory University, Atlanta, GA	2015-2018 2002-2015	<b>Visiting Associate Professor</b> Department of Epidemiology and Biostatistics University of California, San Francisco, CA	1993 - 1994	<b>Associate Professor</b> (with tenure) <b>Assistant Professor</b> Division of Epidemiology and Biostatistics University of Cincinnati, Cincinnati, OH	September 1986 - December 1995 September 1980 - August 1986
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EDUCATION	<b>Ph.D.</b> , Biomathematics (Health Statistics track), December 1980 University of Washington, Seattle, WA <b>B.S.</b> , Mathematics and Statistics, June, 1976																

Miami University, Oxford, OH

#### HONORS

Faculty Excellence Award, Nell Hodgson Woodruff School of Nursing, 2018  
Elected Member, International Statistical Institute, 2002  
Statistics Section Award in Academics, American Public Health Association, 2000  
Fellow, American Statistical Association, 1999  
Founders Award, American Statistical Association, 1994  
Who's Who in American Women, 1989-1990  
Outstanding Young Woman of America, 1985  
NHLBI Cardiovascular Traineeship, July, 1979 to August, 1980  
B.S. awarded cum laude  
Phi Beta Kappa  
Pi Mu Epsilon  
Miami University Freshman Scholar

#### CERTIFICATION

**Professional Statistician** (P.Stat.), American Statistical Association, 2010 - present

#### PUBLICATIONS

##### **Published/In Press**

As of September 8, 2021, my **h-index** is either **53** (per Google Scholar) or **43** (per Web of Science), and my **Erdős number** is **4**.

*Interpretation:*The following designations are used: @ for doctoral or master's student whose research was performed under my supervision, # for master's or doctoral students who worked on the publication, % for post-doctoral scholars, residents, or clinical fellows who worked on the publication. In addition, I have worked with two students from the Computer Science program. In the computer science world, conference papers such as those listed here also count as peer-reviewed publications.

- [1] @Sotoodeh M, Xiong L, Ho J. CrowdTeacher: Robust Co-teaching with Noisy Answers and Sample-Specific Perturbations for Tabular Data. *Adv Knowl Discov Data Min* (2021). 2021 May;12713:181-193. PMID: 34308429. PMCID: PMC8302069.
- [2] @Lee EW, Xiong L, Hertzberg VS, Simpson RL, Ho JC. Privacy-preserving sequential pattern mining in distributed EHRs for predicting cardiovascular disease. *AMIA Informatics Summit Proceedings*.
- [3] Dong W, @Lee EW, Hertzberg VS, Simpson RL, Ho JC. GASP: Graph-based approximate sequential pattern mining for electronic health records. *Proceedings of the 25th European Conference on Advances in Databases and Information Systems*.
- [4] %Houser MC, Mac V, @Smith DJ, #Chicas RC, Xiuhtecutli N, Flocks JD, Elon L, Tansey MG, Sands JM, McCauley L, **Hertzberg VS**. Inflammation-related factors identified as biomarkers of dehydration and subsequent acute kidney injury in agricultural workers. *Biological Research for Nursing* 2021. doi:10.1177/10998004211016070. PMID: 34018403
- [5] #Omary C, Cox-Henley M, **Hertzberg VS**, Cranmer JN, Simpson RL. Toolkit for best practice use of electronic health record data in quality improvement. *Computers, Informatics, Nursing: CIN*, 2021. PMID: 34029265. doi: 10.1097/cin.0000000000000757.
- [6] @Nakayama JY, Jo J, Cartwright E, Simpson R, **Hertzberg VS**. Predictors of progression through the cascade of care to a cure for hepatitis C patients using decision trees and random forests. *Computers in Biology and Medicine* 2021. PMID: 33975209. doi: 10.1016/j.compbiomed.2021.104461.

- [7] **Hertzberg VS**, Singh H, Fournier CN, Moustafa A, Polak M, Kuelbs C, Torralba MG, Tansey MG, Nelson KE, Glass JD. Gut microbiome differences between amyotrophic lateral sclerosis patients and spouse controls. *Amyotrophic Lateral Sclerosis and Frontotemporal Degeneration* 2021. PMID: 33818222.
- [8] #Mutic AD, Barr DB, **Hertzberg VS**, Brennan PA, Dunlop AL, McCauley LA. Polybrominated Diphenyl Ether Serum Concentrations and Depressive Symptomatology in Pregnant African American Women. *International Journal of Environmental Research and Public Health* 18(7): 3614, 2021. (PMID: 33807211)
- [9] @Smith DJ, Pius LM, Plantinga LC, Thompson LM, **Hertzberg VS**. Heat Stress and Kidney Function in Farmworkers in the US: A Scoping Review. *Journal of Agromedicine*, in press, 2021. PMID: 33691597. doi: 10.1080/1059924X.2021.1893883.
- [10] @Smith DJ, Mac VVT, **Hertzberg VS**. Using Twitter for Nursing Research: A Tweet Analysis on Heat Illness and Health. *Journal of Nursing Scholarship* 2021. PMID: 33757160. doi: 10.1111/jnu.12654.
- [11] Aho VTE, %Houser MC, Pereira PAB, Chang J, Rudi K, Paulin L, **Hertzberg V**, Auvinen P, Tansey MG, Scheperjans F. Relationships of gut microbiota, short-chain fatty acids, inflammation, and the gut barrier in Parkinson's disease. *Molecular Neurodegeneration* 16(1):6, 2021. (PMID: 33557896) (PMCID: PMC7869249)
- [12] Mac VV, Elon L, #Smith DJ, Tovar-Aguilar A, Economos E, Flocks J, **Hertzberg V**, McCauley L. A modified physiological strain index for workplace-based assessment of heat strain experienced by agricultural workers. *American Journal of Industrial Medicine* 64(4): 258-265, 2021. (PMID: 33543496)
- [13] #Sotoodeh M, #Gero ZH, %Wang W, **Hertzberg VS**, Ho JC. Pressure ulcer injury in unstructured clinical notes: detection and interpretation. *AMIA Annual Symposium Proceedings 2020*:1160-1169. 2021.
- [14] Mac V, Elon L, Mix J, Tovar-Aguilar A, Flocks J, Economos E, **Hertzberg V**, McCauley L. Risk factors for reaching core body temperature thresholds in Florida agricultural workers. *Journal of Occupational and Environmental Medicine*, in press, 2021. (PMID: 33560064)
- [15] @Smith DJ, Ferranti EP, **Hertzberg VS**, Mac V. Knowledge of heat-related illness first aid and self-reported hydration and health-related illness symptoms in migrant farmworkers. *Workplace Health and Safety* 69(1): 15-21, 2021. (PMID: 32723031)
- [16] #Chicas R, Xiuhtecutli N, Dickman NE, Flocks J, Scammell MK, Steenland K, **Hertzberg V**, McCauley L. Cooling interventions among agricultural workers: qualitative field-based study. *Hispanic Health Care International*, in press, 2021. (PMID: 33601922)
- [17] #Chicas R, Xiuhtecutli N, Elon L, Scammell MK, Steenland K, **Hertzberg V**, McCauley L. Cooling interventions among agricultural workers: a pilot study. *Workplace Health and Safety*, in press, 2021. (PMID: 33357122)
- [18] @Smith D, #Mutic A, Mac VVT, **Hertzberg VS**, McCauley LA. Analyzing the predictors of health care utilization in the agricultural worker population using decision tree analysis: does language matter? *Public Health Nursing* 38(1): 56-63, 2021. (PMID: 33107059)
- [19] #Quigley CTC, #Capistrant-Fossa KA, Morrison HG, Johson LE, Morozov A, **Hertzberg VS**, Brawley SH. Bacterial communities show algal host (*Fucus* spp.)/zone differentiation across the stress gradient of the intertidal zone. *Frontiers in Microbiology* 11:563118, 2020. (PMID: 33072025) (PMCID: PMC7541829)

- [20] #Chicas R, Xiuhtecutli N, Dickman NE, Scammell ML, Steenland K, **Hertzberg VS**, McCauley L. Cooling intervention studies among outdoor occupational groups: a review of the literature. *American Journal of Industrial Medicine*, 63(11):988-1007, 2020. (PMID: 32886396) (PMCID: PMC7745167)
- [21] Xiong L, Shahabi C, Da Y, Ahuja R, **Hertzberg V**, Waller L, Jiang X, and Franklin A. REACT: real-time contact tracing and risk monitoring using privacy-enhanced mobile tracking. *ACM SIGSPATIAL Special*, 12(2):3–14, 2020.
- [22] Pak VM, Butts B, **Hertzberg V**, Collop N, Quyyumi AA, Cox J, Rogers A, Dunbar SB. Daytime sleepiness predicts inflammation and ambulatory blood pressure in sleep apnea. *ERJ Open Research*, 6(4): 00310-2019, 2020. (PMID: 33263040) (PMCID: PMC7682673)
- [23] Corwin EJ, Brewster G, Dunbar SB, Wells J, **Hertzberg V**, Holstad M, Song MMK, Jones D. The metabolomic underpinnings of symptom burden in patients with multiple chronic conditions. *Biological Research for Nursing*, 20(2):136-141, 2020. (PMID: 32914645)
- [24] %McLaughlin SN, Song MMK, **Hertzberg V**, Piazza AJ. Use of palliative care consultation services for infants with life-threatening conditions in a metropolitan hospital. *Advances in Neonatal Care* 20(2): 136-141, 2020. (PMID: 32224820)
- [25] Fournier C, #Houser M, Tansey M, Glass J, **Hertzberg VS**. The potential role of the gut microbiome in amyotrophic lateral sclerosis: emerging clinical evidence. *Neurobiology of Disease* 135:1043000, 2020. (PMID: 30321601)
- [26] Fournier CM, Bedlack R, Quinn C, Russell J, Beckwith D, Kaminski KH, Tyor W, **Hertzberg V**, James V, Polak M, Glass JD. Development and validation of the Rasch-built Overall Amyotrophic Lateral Sclerosis Disability Scale (ROADS). *JAMA Neurology* 77(4). 480-488, 2019. (PMID: 31886839) (PMCID: PMC6990811)
- [27] Dunlop AL, Knight AK, Satten GA, Cutler AJ, Wright ML, Mitchell RM, Read TD, **Hertzberg VS**, Hill CC, Smith AK, Corwin EJ. Stability of the vaginal, oral, and gut microbiota across pregnancy among African American women: the effect of socioeconomic status and antibiotic exposure. *PeerJ* 7:e8004, 2019. (PMID: 31772833) (PMCID: PMC6875384)
- [28] %Mix JM, Elon L, Mac V, Flocks J, Economos E, **Hertzberg VS**, McCauley L. Physical activity and work activities in Florida agricultural workers. *American Journal of Industrial Medicine* 62(12):1058-1067, 2019. (PMID: 31418883)
- [29] #Mac V, Tovar-Aguilar JA, Elon L, Economos E, **Hertzberg VS**, McCauley LA. Elevated core temperature in Florida fernery workers: results of a pilot study. *Workplace Health & Safety* 67(9): 470-480, 2019. (PMID: 31315538)
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- [31] %Mac VVT, **Hertzberg V**, McCauley LA. Examining agricultural workplace micro and macroclimate data using decision tree analysis to determine heat illness risk. *Journal of Occupational and Environmental Medicine* 61(2):107-114, 2019. (PMID: 30335678) (PMCID: PMC6367045)
- [32] @Nakayama JY, **Hertzberg V**, Ho JC. Making sense of abbreviations in nursing notes: A case study on mortality prediction. *AMIA Summits on Translational Science Proceedings*, 2019: 275, 2019. (PMID: 31258980) (PMCID: PMC6568120)

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- [35] **Hertzberg VS**, #Wang YA, Elon LK, Lowery-North DW. The risk of cross infection in the emergency department: a simulation study. *Infection Control and Hospital Epidemiology* 39(6):688-693, 2018. (PMID: 29656720) (PMCID: PMC6088782)
- [36] **Hertzberg VS**, Weiss H, Elon L, Si W, Norris SL, FlyHealthy Research Team. Behaviors, movements, and transmission of droplet-mediated respiratory diseases during transcontinental airline flights. *Proceedings of the National Academy of Sciences of the United States of America* 115(4): 3623-3627, 2018. (PMID: 29555754) (PMCID: PMC5889623)Hertzberg and Weiss contributed equally to this work.
- [37] %Mix J, Elon L, %Mac VVT, Flocks J, Economos E, Tovar-Aguilar AJ, **Hertzberg VS**, McCauley LA. Hydration status, kidney function, and kidney injury in Florida agricultural workers. *Journal of Occupational and Environmental Medicine* 60(5): E253-E260, 2018.
- [38] Weiss H, **Hertzberg VS**, DuPont C, Espinoza J, Wu H, Levy S, Elon L, Norris S. The airplane cabin microbiome. *Microbial Ecology* 77(1):87-95, 2019. (PMID: 29876609) (PMCID: PMC6318343) Weiss and Hertzberg contributed equally to this article.
- [39] #Houser MC, Chang J, Factor SA, Molho ES, Zabetian CP, Hill-Burns EM, Payami H, **Hertzberg VS**, Tansey MG. Stool immune profiles evince gastrointestinal inflammation in Parkinson's disease. *Movement Disorders* 33(5):792-804, 2018. (PMID: 29572994) (PMCID: PMC5992021)
- [40] %Eidson LN, Kannarkat GT, Barnum CJ, Chang J, Chung J, Caspell-Garcia, Taylor P, Mollenhauer B, Schlossmacher MG, Ereshsfsky L, Yen M, Kopil C, Frasier M, Marek K, **Hertzberg VS**, Tansey MG. Candidate inflammatory biomarkers display unique relationships with alpha-synuclein and correlate with measures of disease severity in subjects with Parkinson's disease. *Journal of Neuroinflammation* 14(1): 164, 2018. DOI: 10.1186/s12974-017-0935-1. (PMID: 28821274) (PMCID: PMC5563061)
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- [42] **Hertzberg VS**, #Baumgardner J, @Mehta CC, Elon L, Cotsonis G, Lowery-North DW. Contact networks in the emergency department: effects of time, environment, patient characteristics, and staff role. *Social Networks* 48:181-191, 2017. (PMID: 32288125) (PMCID: PMC7126867)
- [43] **Hertzberg VS**, #Mac V, Elon LK, Mutic N, #Mutic A, Peterman KA, Tovar-Aguilar JA, Economos E, Flocks J, McCauley L. Analysis of real-time physiologic monitoring data in the research setting. *Western Journal of Nursing Research* 39(1):95-111, 2017. (PMID: 27756853) (PMCID: PMC5797491)
- [44] @Chen I, Benzi M, Chang H, **Hertzberg V**. Dynamic communicability and epidemic spread: a case study on an empirical dynamic contact network. *Journal of Complex Networks* 5(2):274-302, 2017.

- [45] Glass JD, **Hertzberg VS**, Boulis NM, Riley J, Polak M, Bordeau J, Fournier C, Johe K, Hazel T, Cudkowicz M, Atassi N, Borges L, Patil P, Rutkove SB, Ballard J, Goutman SA, Feldman EL. Spinal cord transplantation of spinal cord-derived neural stem cells for ALS: Analysis of phase 1 and 2 trials. *Neurology* 87(4) 392-400, 2016. (PMID: 27358335) (PMCID: PMC4977116) Glass and Hertzberg contributed equally to this work.
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- [47] **Hertzberg VS**, Elon LK, Si W, Weiss HN. On the Two-Row Rule for Infectious Disease Transmission on Aircraft. *Annals of Global Health* 82(5):819-823, 2016. (PMID: 28283135) (PMCID: PMC7104167)
- [48] @BrayM, **Hertzberg V**. Evaluating the Accuracy and Efficiency of Complex Network Classification Algorithms. Signal-Image Technology and Internet-Based Systems (SITIS), 2014 Tenth International Conference. IEEE, 2014.
- [49] DiClemente RJ, Jackson JM, **Hertzberg V**, Seth P. Steroid use, health risk behaviors and adverse health indicators among U.S. high school students. *Family Medicine & Medical Science Research*, 3(3): 127, 2014. DOI: 10.4172/2327 - 4972.1000127
- [50] Wright DW, Yeatts SD, Silbergleit R, Palesch YY, **Hertzberg VS**, Frankel M, Goldstein FC, Caveney AF, Howlett-Smith H, Bengelink EM, Manley GT, Merck LH, Janis LS, Barsan W. Very early administration of progesterone for acute traumatic brain injury. *New England Journal of Medicine* 371(46):2457-2466, 2014. (PMID: 25493974) (PMCID: PMC4303469)
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- [52] @Xu Z, **Hertzberg VS**. Bayesian area-age-period-cohort model with carcinogenesis age effects in estimating cancer mortality. *Cancer Epidemiology* 37(5): 593 - 600, 2013. (PMID: 23891684)
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- [59] Brott TG, Halperin JL, Abbara S, Bacharach JM, Barr JD, Bush RL, Cates CU, Creager MA, Fowler SB, Friday G, **Hertzberg VS**, McIff EB, Moore WS, Panagos PD, Riles TS, Rosenwasser RH, Taylor AJ, Jacobs AK, Smith SC Jr; American College of Cardiology Foundation; American Heart Association Task Force on Practice Guidelines; American Stroke Association; American Association of Neuroscience Nurses; American Association of Neurological Surgeons; American College of Radiology; American Society of Neuroradiology; Congress of Neurological Surgeons; Society of Atherosclerosis Imaging and Prevention; Society for Cardiovascular Angiography and Interventions; Society of Interventional Radiology; Society of NeuroInterventional Surgery; Society for Vascular Medicine; Society for Vascular Surgery; American Academy of Neurology and Society of Cardiovascular Computed Tomography. 2011 ASA/ACCF/AHA/AANN/AANS/ACR/ASNR/CNS/SAIP/SCAI/AIR/SNIS/SVS guideline on the management of patients with extracranial carotid and vertebral artery disease; executive summary: a report of the American College of Cardiology Foundation/American Heart Association Task Force on Practice Guidelines, and the American Stroke Association, American Association of Neuroscience Nurses, American Association of Neurological Surgeons, American College of Radiology, American Society of Neuroradiology, Congress of Neurological Surgeons, Society of Atherosclerosis Imaging and Prevention, Society of Interventional Radiology, Society of Neurointerventional Surgery, Society for Vascular Medicine, and Society for Vascular Surgery. *Stroke* 42(8): e420 - 463, 2011. (PMID: 21282493)
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rosis Imaging and Prevention; Society for Cardiovascular Angiography and Interventions; Society of Interventional Radiology; Society of NeuroInterventional Surgery; Society for Vascular Medicine; Society for Vascular Surgery; American Academy of Neurology and Society of Cardiovascular Computed Tomography. 2011

ASA/ACCF/AHA/AANN/AANS/ACR/ASNR/CNS/SAIP/SCAI/AIR/SNIS/SVS guideline on the management of patients with extracranial carotid and vertebral artery disease; executive summary: a report of the American College of Cardiology Foundation/American Heart Association Task Force on Practice Guidelines, and the American Stroke Association, American Association of Neuroscience Nurses, American Association of Neurological Surgeons, American College of Radiology, American Society of Neuroradiology, Congress of Neurological Surgeons, Society of Atherosclerosis Imaging and Prevention, Society of Interventional Radiology, Society of Neurointerventional Surgery, Society for Vascular Medicine, and Society for Vascular Surgery. *Circulation* 124(4): 489 - 532, 2011. (PMID: 21282504)

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- [154] Chaitman BR, Rogers WJ, Davis K, Tyras DH, Berger R, Bourassa MG, Fisher L, **Hertzberg VS**, Judkins MP, Mock MB, Killip T. Operative risks in left main coronary artery disease. *New England Journal of Medicine* 303: 953 - 957, 1980. (PMID: 7412850)

## Other

- [155] **Hertzberg VS**. Utilization 2: special datasets. *Statistics in Medicine* 14:693,1995. (PMID: 7792460)

#### Book Chapters

- [156] Yang I, Edwards S, Dunlop A, **Hertzberg V**. The Microbiome in Health and Disease. In *Systems Medicine: Integrative, Qualitative, and Computational Approaches*. Wolkenhauer, O. and Voit, E. editors. Elsevier, 2020.
- [157] **Hertzberg VS**, Russek-Cohen E. Statistical Methods in Molecular Epidemiology. In *Molecular Epidemiology: Principles and Practices*, Schulte, P.A. and Pereira, F. editors. Academic Press, New York, pp. 199 - 216, 1993.
- [158] Maxon HR, Schroder LE, Thomas SR, **Hertzberg VS**, Deutsch E, Samaratunga RC, Libson K, Moulton JS, Schneider HJ. 186-Re(Sn)-HEDP for the Treatment of Painful Osseous Metastases: Initial Clinical Experience. In *Technetium and Rhenium in Chemistry and Nuclear Medicine*. (eds. Nicolini, M., Bandoli, G., Mazzi, U), pp. 733 - 741, 1990. Raven Press, NY.
- [159] Davis KB, Chaitman BR, Killip T, Alderman EL, Austen G, Berger RL, Bourassa M, Brooks H, Cohen LS, Fisher LD, Frye RD, Glassman E, Gosselin AJ, Harthorne JW, Judkins MP, Kaiser G, Kemp HG, McKneally MF, Mock MB, Mudd G, Myers WO, Passamani E, Ringqvist I, Rogers WJ, Russell RO, Ryan TJ, Sautter R, Sheffield LT, Sosa JA, Tristani F, Tyras DH, **Hertzberg VS**, Maynard C. Effect of Coronary Bypass Surgery on Operative Mortality and Survival Patterns in Subsets of Patients with Left Main Coronary Artery Disease. In *Coronary Bypass Surgery: The Late Results*, Hammermeister, Karl E., Editor, 129 - 152, March, 1983.
- [160] Bonewitz RF, Foulkes EC, O'Flaherty EJ, **Hertzberg, VS**. The Effect of Dexamethasone on the Kinetics of Jejunal Zinc Uptake and Metallothionein Synthesis in the Rat. In Foulkes, E.C., Editor, *Biological Roles of Metallothionein. Developments in Toxicology and Environmental Science*. Elsevier-North Holland, New York, 9: 203 - 214, 1982.

#### Non-peer reviewed Publications

- [161] %Bonewitz RF, Foulkes EC, O, Flaherty EJ, **Hertzberg VS**. The effect of dexamethasone on the kinetics of jejunal zinc uptake and metallothionein synthesis in the rat. *Developments in Toxicology and Environmental Science* 9: 203-214, 1982. (PMID: 7053967)
- [162] Maxon H, Book SA, Buncher CR, **Hertzberg VS**, Thomas SR. Appendix A: Thyroid Effects. In *Health Effects Model for Nuclear Power Plant Accident Consequence Analysis, Part II: Scientific Basis for Health Effects Models*. Prepared by Evans, J.D., Moeller, D.W. and Cooper, D.W. U.S. Nuclear Regulatory Commission, 1985.
- [163] Maxon HR, Thomas SR, **Hertzberg VS**, Schroder LE, %Englaro EE, Samaratunga R, Scher HI, Moulton JS, Deutsch EA, Deutsch KF, Schneider HJ, Williams CC, Ehrhardt GJ. Rhenium-186 hydroxyethylidene diphosphonate for the treatment of painful osseous metastases. *Nuclear Geneeskundig Bulletin* ISSN 0169-1279, Jaargang 14, 1992.

#### INVITED PRESENTATIONS

- Panelist, *Flying in the COVID Era* workshop of the Aeronautics and Space Engineering Board, National Academies of Science, Engineering, and Medicine, February 4-5, 2021.
- Panelist, *Hot, Cold, Windy and Dusty: Nursing Research to Address Health Inequities Related to Climate Change*. 2020 State of the Science Congress on Nursing Research, Council for the Advancement of Nursing Science, September 17, 2020.

- Testimony at US House of Representatives hearing "R & D to Support Healthy Air Travel in the COVID-19 Era and Beyond," Subcommittee on Space and Aeronautics of the Science, Space, and Technology Committee, June 23, 2020.
- Overview of FlyHealthy Research Study. Invited speaker at "Workshop on Pedestrian Dynamics and Epidemic Modeling" workshop, University of West Florida, Pensacola, FL, 2020.
- Design issues in human studies of disease and the microbiome. Invited participant in "Emerging Statistical Challenges & Methods for Analysis of Human Microbiome Data," workshop 19w5221, Banff International Research Station for Mathematical Innovation and Discovery, Banff, Alberta, Canada, 2019.
- Role of heat exposure and dehydration in kidney disease in farmworkers. Invited presentation at PANAM2019, Havana, Cuba, 2019.
- Complex data management and analysis: opportunities and challenges. Keynote presentation at National Institute of Nursing Research Center Directors Meeting, Bethesda, MD, 2019.
- How can we use data to improve health? Discussant presentation at Emory-Georgia Tech Healthcare Innovation Program, Emory University, Atlanta, GA, 2019.
- Big Data: Is That a Thing Like Big Hair? Keynote presentation at Georgia Nursing Leadership Coalition Doctoral Conference, Milledgeville, GA, 2019.
- Chronic Kidney Disease of Unknown Etiology: Global Pandemic, Domestic Issue? Renal Grand Rounds, October 3, 2017, Emory University School of Medicine, Atlanta, GA.
- Inflammation, Metabolomics, the Microbiome, and Heat-related Illness. Systems Biology Seminar, October 4, 2017, Emory University School of Medicine, Atlanta, GA.
- Invited Panelist, Microbiome Research in Action. NHWSN Research Roundtable, December 6, 2016, Atlanta, GA.
- Take off the Winter Chill. NHWSN Research Roundtable, December 13, 2016, Atlanta, GA.
- Physician Social Networks and Health People 2020 Goals: It's (Not) a Small World After All. With William M. McClellan. Epidemiology Grand Rounds, April 8, 2016, Atlanta, GA.
- Invited Panelist "Infectious Diseases - the Risks". International Travel & Health Insurance Conference Global Athens 2015, November 2, 2015, Athens, Greece.
- Additional Consideration beyond the "Two-Row Rule" for Infectious Disease Airborne Transmission on Commercial Aircraft. International Air Transport Association Aviation Health Conference 2015, September 30, 2015, London, UK.
- Preliminary Findings of the FlyHealthy™ Study. CDC Division of Global Migration and Quarantine Science Forum, May 14, 2015, Atlanta, GA.
- Interpersonal Contacts in the Emergency Department and the Risk of Cross Infection. CDC Modeling Infectious Disease Seminar, October 8, 2014, Atlanta, GA.
- The Fly Health Study. International Travel Insurance Conference. November 6, 2013, Vienna, Austria.
- Contact and Infectious Disease Transmission between Passengers and Flight Attendants on Commercial Aircraft: Implications for Healthcare. Clinical and Translational Informatics Rounds. April 25, 2013, Atlanta, GA.

- The Fly Healthy Study. Presentation to CDC Division of Quarantine and Border Control. November 29, 2012, Atlanta, GA.
- Faceoff: Using RFID in the ED to Fingerprint Influenza Transmission. Presentation to 6th Annual CEIRS Network Meeting. July 29 - August 1, 2012, New York City, NY.
- Faceoff: Using RFID in the ED to Fingerprint Influenza Transmission. Presentation to Institute for Scientific Interchange. March 21, 2012, Torino, Italy.
- Assessing and evaluating historical data contained in the National Newborn Screening Database. 2007 Newborn Screening and Genetic Testing Symposium. May 8, 2007, Minneapolis, MN.
- Re-analysis and Re-evaluation of the NINDS tPA Trial: A Case Study of the Two Additional R's of Statistics in the Era of NIH Data Sharing. 2009 Summer Research Conference, Southern Regional Council on Statistics. 9 June 2009, Jekyll Island, GA.
- Hertzberg V, Schenck-Yglesias C. Informatics in Action: Applications of Geographic Information Systems in Public Health. International Medical Informatics Association 2004 MedInfo Symposium, September 5, 2004, San Francisco, CA.
- Goldfrank LR, Hertzberg V, Ingall T, Louis T, O'Fallon WM, Asplund K. Initial findings of the rtPA acute ischemic stroke treatment review. Society for Academic Emergency Medicine Annual Meeting, May 29, 2003, Boston, MA.
- Ingall TJ, O'Fallon WM, Louis TA, Hertzberg V, Goldfrank LR, Asplund K. Initial findings of the rtPA acute ischemic stroke treatment review. European Stroke Conference, May 24, 2003, Valencia, Spain
- Hertzberg V, Schenck-Yglesias C, Lee CV, Niehaus W, Hanchette W. Informatics in Action: Applications of Geographic Information Systems in Public Health. American Medical Informatics Association 2002 Symposium, November 13, 2003, San Antonio, Texas.
- Biostatistics and Health Informatics. Invited Roundtable Luncheon Discussion, International Biometrics Society Eastern North American Regional Spring Statistics Meeting, Crystal City, VA, March, 2002.
- Public Health Informatics and Biostatistics. University of Iowa Department of Biostatistics Seminar and College of Public Health Seminar, November, 2001.
- Biostatistics / Public Health Informatics / Opportunity. Presented at CDC Public Health Informatics Seminar, Atlanta, GA, April 27, 2001.
- Biostatistics / Public Health Informatics / Opportunity. Presented at Research Triangle Institute, Research Triangle, NC, February 22, 2001.
- Biostatistics / Public Health Informatics / Opportunity. Presented at Department of Biostatistics Seminar, Emory University, Atlanta, GA, January 25, 2001.
- Statistics In Environmental Health: Challenges in the 21st Century. Keynote address for the Summer Statistics Conference, Southern Regional Conference on Statistics, Navarre Beach, FL, June, 1998.
- Issues in Dependent Discrete Data in Reproductive Epidemiology. Presented at the National Institute for Occupational Safety and Health, Cincinnati, OH, October, 1996.
- Statistical Models for Dependent Discrete Data: Applications to Pregnancy Outcomes Data. Presented at Department of Statistics Colloquium, The Ohio State University, Columbus, OH, April, 1992.

- Statistical Issues in the Analysis of Multiple Outcomes of Pregnancy. Presented at the Sixth Annual EPA Statisticians Conference, Williamsburg, VA, March, 1990.
- Statistical Issues in Quantitative Risk Assessment of Reproductive Outcomes with Chemical Mixtures. Presented at Seventh Symposium on Environmental Epidemiology, University of Pittsburgh, Pittsburgh, PA, April, 1989.

## RESEARCH GRANTS

### Submitted/Pending

- Microbiome and Metabolomics in Renal Transplantation. Principal Investigator: Hertzberg VS. Total costs: \$1,956,250. (U01 to NIH)
- Sensor Hardware and Intelligent Tools for Assessing the Health Effects of Heat Exposure. Principal Investigators: Hertzberg VS, Xiong L, Yeo WH. Total costs: \$2,941,625. (R01 to NIH; scored but not funded, resubmission planned for November 5, 2021)
- Women's Health and Intersectionality: Research Training in Data Science and Health Information Technology (WISDOM). Principal Investigators: Im E, Hertzberg VS. Total cost: \$2,566,475. (Revised T32 application to NIH)

### Active

- Machine Learning Methods for Atrial Fibrillation Ablation. 9/8/2021-7/31/2023. Principal Investigators: Hertzberg VS, Ho JC. Total costs: \$224,547. (R21 to NIH)
- Microbiome in the Progression of Amyotrophic Lateral Sclerosis (ALS). 9/1/19 - 8/31/22. Principal Investigators: Hertzberg VS, Glass JD. Total costs: \$300,000. (Investigator-initiated grant proposal to ALS Association)
- SCH: INT Re-envisioned Chart-assessment for Real-time Investigation of Nursing and Guidance. Principal Investigators: Hertzberg VS, Ho JC. Total costs: \$ 939,734. 7/1/2019-6/30/2023. (R01 to NIH)
- Occupational Heat Exposure and Renal Dysfunction. Principal Investigators: McCauley L, Hertzberg VS, Sands J. Total costs: \$2,334,924. (R01 to NIH, funded by CDC/NIOSH)
- Center for the Study of Symptom Science, Metabolomics, and Multiple Chronic Conditions. Principal Investigators: Corwin EJ, Song MK, V. Hertzberg, Director of Data Science Core. Total costs: \$3,021,585. (P30 to NIH) 6/1/2019 - 5/31/2024.
- Emory Center of Excellence in Influenza Research and Response. Funded by NIAID. W. Orenstein, Principal Investigator. V.S. Hertzberg, co-Investigator. 3/30/2021-3/29/2028. Total costs: \$7,004,697 total costs.

### Completed

- RAPID: REACT: Real-time Contact Tracing and Risk Monitoring via Privacy-Enhanced Mobile Tracking. Principal Investigators: Xiong L, Hertzberg V, Waller L. Total costs: \$71,013.
- Emory-UGA Center of Excellence in Influenza Research and Surveillance. Funded by NIAID. W. Orenstein, Principal Investigator. V.S. Hertzberg, co-Investigator. 3/30/15 - 3/29/21. \$26,413,355 total costs.

- Center for Children's Health, the Environment, the Microbiome, and Metabolomics. Funded by NIEHS and EPA. L. McCauley, Principal Investigator. V.S. Hertzberg, lead statistician. 9/30/2015 - 06/30/2019. \$5,023,116 total costs.
- Brazil - US Kidney Injury Study. Funded by Halle Institute (to VSH) and FAPESP (to DMZ). Principal Investigators: Hertzberg VS (Emory University); Zanetta DM (University of São Paulo). 6/1/18 - 5/31/18. Total costs: \$10,000 (Emory University); \$10,000 (University of São Paulo).
- DALIAS pilot. Funded by Georgia CTSA. Principal Investigators: Hertzberg VS, Mac VVT, Uppal K, Tansey M. 1/1/18 - 6/30/18. Total costs: \$37,216.
- The Impact of the Intrauterine and Early Childhood Environments on Neurocognitive and Metabolic Development in African American Youth: Focus on the Gut-Brain Axis. A. Dunlop, Principal Investigator. V.S. Hertzberg, co-investigator. 9/28/2016-8/31/2018. \$1,414,931 total costs.
- The Girasoles (Sunflower) Study. Funded by CDC/NIOSH. L. McCauley, Principal Investigator. V.S. Hertzberg, lead statistician. 9/1/2014 - 8/31/2018. \$1,121,375 total costs in project years 1 and 2.
- Heat-related Illness, Adaptation, the Microbiome, and Inflammation (HIAMI). Funded by HERCULES Exposome Center Pilot Project Program. V.S. Hertzberg, Principal Investigator. 4/1/16 - 3/31/17. \$40,000 total costs.
- ProTECT III: Progesterone for TBI. Funded by NINDS. D. Wright Principal Investigator, V.S. Hertzberg, co-Investigator. \$8,867,053 total costs.
- Phase 1b Stem Cell Transplant in ALS. Funded by NINDS. J. Glass Principal Investigator. V.S. Hertzberg, co-Investigator. \$2,858,698 total costs.
- Environmental Biostatistics Training Grant. Funded by NIEHS. L.Waller, Principal Investigator, V.S. Hertzberg, co-Investigator. 9/1/06 - 8/31/16. \$1,201,581 total costs.
- Assessing the Rate of Infectious Disease Transmission in an Aircraft Cabin. Subcontract to Georgia Institute of Technology Contract to The Boeing Company. V.S. Hertzberg, co-Principal Investigator. \$1,377,000 total costs.
- Influenza Pathogenesis and Immunology Research Center. Funded by NIAID. R. Compans, Principal Investigator. V.S. Hertzberg, co-Investigator. 3/30/07 - 3/29/14. \$32,800,000 total costs.
- ProTECT II: Progesterone for TBI MCCT Planning Grant. Funded by NINDS. D. Wright Principal Investigator. V.S. Hertzberg, co-Investigator. 4/1/07 - 3/31/08. \$150,000 total direct costs.
- National Newborn Screening Genetic Resource Center. Funded by Health Resources and Services Administration by subcontract through University of Texas Health Sciences Center San Antonio. V.S. Hertzberg, Principal Investigator. 5/1/06 - 5/31/07. \$30,778 total direct costs.
- VALIDATE - Stroke Care: VALidating Indicators by Determining correlATIOn with End-points. Funded by AAMC/CDC. M. Frankel, Principal Investigator, V.S. Hertzberg, co-Investigator. 10/1/05 - 10/1/08. \$195,426 total direct costs.
- Tracking and Improving Quality of Medical Care and Rehabilitation. Funded by AAMC / CDC. M. Frankel, Principal Investigator, V.S. Hertzberg, co-Investigator. 10/1/04 - 9/30/06. \$59,129 total direct costs.

- HIV Prevention Maintenance for African American Teens. R. DiClemente, Principal Investigator, V.S. Hertzberg, co-Investigator. 9/30/03 - 6/30/08. \$416,609 total direct costs.
- PRISE: Worksite Fitness for African-American Women. Funded by CDC. C. Hogue, Principal Investigator, V.S. Hertzberg, co-Investigator. 9/30/04 - 9/29/07. \$342,753 total direct costs.
- Immune Function and Biodefense in Children, Elderly and Immunocompromised Populations. Funded by NIH (NIAID). C. Larsen, Principal Investigator, V. S. Hertzberg, co-Investigator. 9/1/05 - 8/30/10. \$1,584,436 total direct costs.
- Validation of Stroke Care Quality Indicators for the Paul Coverdell National Acute Stroke Registry. Funded by AAMC/CDC. M. Frankel, Principal Investigator, V.S. Hertzberg, co-Principal Investigator. 10/1/05 - 9/30/08. \$195,429 total direct costs.
- Role of the STRK1 Gene in Ischemic Stroke in the USA. Funded by Doris Duke Foundation. B. Stern, Principal Investigator, V.S. Hertzberg, co-Principal Investigator. 7/1/02 - 7/30/05.
- U.S. Medical Students' Cancer Prevention Behavior and Attitudes. Funded by American Cancer Society. E. Frank, Principal Investigator. V.S. Hertzberg, co-Investigator. 1/1/01 - 12/31/05.
- Investigation of the Utility of the Multistage Model for Quantification of the Epidemiology of Stroke and Associated Risk Factors. Funded by CDC. V.S. Hertzberg, Principal Investigator. 7/1/04 - 4/30/05.
- Development of Prototypes for the Paul Coverdell National Acute Stroke Registry - The Georgia Project. Funded by CDC. M. Frankel, Principal Investigator, V.S. Hertzberg, co-Principal Investigator, \$1,198,311, September 1, 2001 - August 31, 2002. V.S. Hertzberg, Director of Statistical Coordinating Center \$308,687 total direct costs.
- Genetic/Exposure Interaction in Beryllium Disease. Funded by NIOSH. V. S. Hertzberg, Emory Principal Investigator. \$157,856 direct costs for statistical center, December 1, 2001 - November 30, 2004.
- Progesterone Treatment of Traumatic Brain Injury. Funded by NINDS. A. Kellermann, Principal Investigator, V. S. Hertzberg, Co - Investigator. \$1,940,226 direct costs, September 1, 2001 - August 31, 2004.
- Clinical Research Curriculum Award. D. Stephens, Principal Investigator, \$191,085, June 1, 1999 - May 31, 2004.
- Effect of N-3 Fatty Acids on Sickle Cell Pain Episodes. Funded by NHLBI. J. Eckman, Principal Investigator, \$1,013,882, July 1, 1999 - May 31, 2002.
- Improving Primary Care of African-Americans with NIDDM. Funded by AHRQ. L. Phillips, Principal Investigator, \$3,327,706, September 30, 1998 - September 29, 2002.
- Georgia Model Brain Injury System. Funded by U.S. Department of Education. A. Stringer, Principal Investigator, \$1,380,000, October 1, 1998 - September 30, 2002.
- Prevention of Graft Failure to Dietary N-3 Fatty Acids. Funded by NHLBI. J. Tumlin, Principal Investigator, \$1,368,348, February 1, 1999 - December 31, 2002.
- Chronic Beryllium Disease Among Beryllium-exposed Workers Data Center. Funded by CDC/DOE. V.S. Hertzberg, Emory Principal Investigator, \$453,190, September 29, 1995 - September 29, 2000.

- The MI PBB Cohort 20 Year Later: Endocrine Disruption. Funded by NIEHS/EPA. M. Marcus, Principal Investigator, \$188,062, September 1, 1996 - August 31, 1999.
- General Clinical Research Center (GCRC) at Emory School of Medicine. Funded by NIGMS. T. Lawley, Principal Investigator. \$2,439,239, December 1, 1999 - November 30, 2004.
- Warfarin vs. Aspirin for Intracranial Arterial Stenosis (WASID). Funded by NINDS. M. Chimowitz, Principal Investigator, \$15,803,373, September 15, 1998 - June 30, 2003. V.S. Hertzberg, Director of Statistical Coordinating Center \$1,829,449 direct direct costs.
- Cohort Study of Former Employees of a Chloralkali Plant in Brunswick, Georgia. Funded by NIEHS. H. Frumkin, Principal Investigator, \$1,089,971, January 1, 1997 - December 31, 1998.
- Implant, Prosthetic & Periodontal Studies. Funded by NIH. M. Fritz, Principal Investigator, \$520,757, March 8, 1995 - March 31, 1999.
- Statistical Methods for DNA Fingerprint Data in Assessing Environmental Change. Funded by EPA. V.S. Hertzberg, Principal Investigator, \$31,369, September 1, 1992 - August 31, 1995.
- Regression Procedures for Multiple Outcomes of Pregnancy, Funded by EPA. V.S. Hertzberg, Principal Investigator, \$53,540, October 1, 1989 - September 30, 1992.
- Statistical Methods in Reproductive Epidemiology. Funded by NICHD. V.S. Hertzberg, Principal Investigator, \$143,102, May 1, 1987 - April 30, 1990.
- Diabetes in Pregnancy. Funded by NICHD. R. Tsang, Principal Investigator, \$9,418,359, December 1, 1988 - November 30, 1993; Project C2 Biostatistics, V.S. Hertzberg, Principal Investigator.
- Exploratory Research on Mutagenic Activity of Coal Related Materials Using Statistical Evaluation. Funded by U.S. Department of Energy. D. Warshawsky, Principal Investigator; R. Schoeny, Co - Principal Investigator; Hertzberg, V.S., co-Investigator, \$106,192, September 29, 1983 to July 29, 1985.
- Diabetes in Pregnancy. Funded by NICHD. R. Tsang, Principal Investigator, \$423,279, June 1, 1983 - May 31, 1988, Project 1B Biostatistics, V.S. Hertzberg, Principal Investigator.
- Perinatal Emphasis Research Center. Funded by NICHD. R. Tsang, Principal Investigator, \$382,546. September, 1985 - September, 1990. Project 1B, Biostatistics Core, V.S. Hertzberg, Principal Investigator.

## SERVICE

### **Community and Professional Service**

Secretary-Treasurer, Cincinnati Chapter, American Statistical Association (1982-1983)  
Vice President, Cincinnati Chapter, American Statistical Association (1983-1984)  
President, Cincinnati Chapter, American Statistical Association (1984-1985)  
Cincinnati Chapter Representative to Council of Chapters, American Statistical Association (1986-1987)  
Governor, District 4 (Midwest Region), Council of Chapters, American Statistical Association (1988-1989)  
Member, Regional Advisory Board, Eastern North American Region, The Biometric Society (1987-1989)  
Chairman, ASA Sesquicentennial Souvenir Committee, Council of Chapters, American Statistical Association (1988-1989)  
District Governor, Midwest Region, Council of Chapters, American Statistical Association (1988-1989)  
Representative to Membership Committee, American Statistical Association (1989-1991)  
Chair-elect, Council of Chapters, American Statistical Association (1990)  
Member, Endocrinologic and Metabolic Drugs Advisory Committee, U.S. Food and Drug Administration (1990-1994)  
Volunteer, All About Kids, Cincinnati, Ohio (1986-1991)  
Member, Board of Directors, U Kids Day Care Cooperative, Inc. (1989-1990)  
Vice President, Board of Directors, U-Kids Day Care Cooperative, Inc. (1990-1991)  
Chair, Council of Chapters, American Statistical Association (1991)  
Member, Board of Trustees, UC Child Care Center, Inc. (1991-1994)  
Past Chair, Council of Chapters, American Statistical Association (1992)  
Secretary, Council of Sections, American Statistical Association (1992-1994)  
Chair, Local Arrangements Committee, 1992 Spring Statistics Meetings, Cincinnati, Ohio, The Biometrics Society (1988-1994)  
Member, Committee on Nominations, American Statistical Association (1992-1994)  
Member, Founders Award Committee, American Statistical Association (1992-1993)  
Member, Ad Hoc Review Committees (7), NINDS (1991-1996)  
Secretary, Biometrics Section, American Statistical Association (1993-1994)  
Chair-elect, Biometrics Section, American Statistical Association (1995)  
Member, Military Nursing Research Committee, Institute of Medicine (1995-1996)  
Chair, Biometrics Section, American Statistical Association (1996)  
Past Chair, Biometrics Section, American Statistical Association (1997)  
Member, Central Presbyterian Church (1997-present)  
Member, Neuroscience Disorders Review Committee-A, NINDS (1996-2000)  
Member, Medical Imaging Drug Advisory Committee, FDA (1996-1999)  
Secretary-Treasurer, Committee of Presidents of Statistical Societies (1997-2000)  
Recording Secretary, Friends of Mill Creek Preserve, Inc. (1997-1998)  
Member, Board of Trustees, National Institute of Statistical Sciences (1999-2000)  
Member, Neuroscience Disorders Review Committee-K, NINDS (2001-2002)  
Member, External Advisory Committee, Randomized Trial of Indomethacin for Intraventricular Hemorrhage, Yale University (2001-2005)  
Member, t-PA Acute Ischemic Stroke Treatment Review Committee, NINDS (2002-2004)  
Member, External Advisory Committee, Trucking Industry Particle Study, Harvard University (2002-2005)  
Member, College of Arts and Sciences Alumni Advisory Board, Miami University (2003-2005)  
Member, Neuroscience Disorders Review Committee-K, NINDS (2004-2008)  
Member, Data Safety and Monitoring Committee, Efficacy and Safety of Eszopiclone (Lunesta) in Nursing Home Patients (2006-2009)  
Leader and Teacher, Living Waters for the World Team, Central Presbyterian Church, to Hogar

Mana, Merida, Mexico (2006-2009)

Member, Data Safety and Monitory Committee, Development of Immunosuppressive Regimens to Facilitate Single Donor Islet Transplantation Using Abatacept (GEN01 Protocol) Study (2006-present)

Member, Data Safety and Monitory Committee, Islet Transplantation in Type 1 Diabetes Using the Edmonton Protocol of Steroid Free Immunosuppression (2006-present)

Member, Extracranial Carotid and Vertebral Disease Guideline Writing Committee, American Stroke Association (2007-2011)

Accreditation Committee, American Statistical Association (2010-2015)

### **Committees (University of Cincinnati)**

Member Evaluations Committee, Dept. of Environmental Health (1980-1986)

Secretary, Medical Computer Services Committee (1981-1983)

Member, Medical Center Computer Services Committee, Medical Center (1983-1988)

Member, IAIMS Information Task Force, Medical Center (1984-1986)

Member, IAIMS Education Task Force, Medical Center (1985-1986)

Member, University Dean's Research Computing Committee (1985-1990)

Chairman, Research Computing Subcommittee of Medical Information Advisory Committee (1988-1990)

Chairman, President's Salary Equity Review Committee (1988-1990)

Member, AAUP-College of Medicine Joint Study Committee (1990-1992)

Chairman, Reappointment, Promotion and Tenure Committee, Department of Environmental Health (1991-1994)

Member, University Faculty Grievance Committee (1992-1994)

Member, Distinguished Dissertation Committee, University Dean for Graduate Studies (1992)

Chairman, Curriculum Committee, Division of Biostatistics and Epidemiology (1993)

Member, University Commission on the Status of Women (1993)

### **Committees (Emory University)**

Member, Emory Women's Club Dissertation Fellowship, Selection Committee (1995)

Member, Search Committee for Dean, Rollins School of Public Health (1995)

Member, General Clinical Research Center Advisory Committee (1995-2000)

Member, Rollins School of Public Health Appointment, Promotion, and Tenure Committee (1995-1996)

Chair, Search Committee for Winship Cancer Center Statistician (1995-1996)

Member, Department of Biostatistics Qualifying Exam Committee (1996)

Member, Search Committee for Assistant Director of Development, Rollins School of Public Health (1996)

Member, Graduate School of Arts and Sciences, Graduate Executive Council (1996-1998)

Chair, Department of Biostatistics Qualifying Exam Committee (1995-1998)

Member, Woodruff Health Sciences Center Research Strategic Planning Committee (WHSCR-SPC) (1997)

Co-Chair, Clinical and Population-based Research Subcommittee of WHSCRSPC (1997)

Chair, Search Committee for Associate Faculty, Department of Biostatistics (1997)

Member, Quintiles Team, Health Sciences Center (1997)

Member, Emory Minority Graduate Fellowship Selection Committee, Graduate School of Arts and Sciences (1997)

Member, Research Computing Committee, Office of Research (1997-1998)

Chair, Graduate Executive Council, Graduate School of Arts and Sciences (1999-2000)

Member, Emory University Faculty Council (1998-2001)

Member, Electronic Research Administration Planning Committee, Office of Research (1998-

2001)  
 Member, Office of Research/Office of Sponsored Programs Advisory Council (1999-2000)  
 Member, Emory University Faculty Hearing Committee (1999-2001)  
 Co-chair, RSPH/GBS/NHWSN Martin Luther King Community Service Award Committee (1999-2001)  
 Member, Vice President for Research Administration Search Committee (1999-2000)  
 Member, Emory University Council on Information Resources and Technology (2001-2002)  
 Member, University Advisory Committee on Teaching (2004-2007)  
 Member, Academic Exchange Advisory Committee (2013-present)  
 Member, CS Faculty Search Committee, Department of Mathematics and Computer Science (2013-2015)  
 Member, NHWSN Research Committee (2015-present)  
 Member, NHWSN *ad hoc* Committee on Tenure Timeline, (2015-2016)  
 Member, Planning Committee for 2016 Big Data in Healthcare Symposium (2015-2016)  
 Member, NHWSN Faculty Committee on Appointment, Promotion, and Tenure (2015-present)  
 Member, NHWSN PhD Admissions Committee (2017-present)  
 Member, Information Technology Sub-Committee for Research (2017 - present)  
 Member, Search Committee for Chair, Department of Biostatistics and Bioinformatics, Rollins School of Public Health, Emory University (2017-2018)  
 Chair, Planning Committee for 2018 ThinkBIG Symposium  
 Member, Faculty Search Committee, Department of Mathematics, Emory College of Arts and Sciences (2018-19)  
 Co-chair, Search Committee for Associate Dean for Research, NHWSN (2019)  
 Member, Faculty Search Committee, Department of Computer Science, Emory College of Arts and Sciences (2019-2021)

PROFESSIONAL  
MEMBERSHIPS

Member, American Statistical Association (1978 - present)  
 Member, The Biometric Society (1978 - present)  
 Member, American Public Health Association (1991-present)  
 Member, International Statistical Institute (2002-present)  
 Member, American Medical Informatics Association (2000-present)  
 Member, International Network of Social Network Analysts (2012-present)

**University of Cincinnati**

- 26-904-787 Introduction to Biostatistics, Autumn Quarter, 1980, 1981, 1982. Descriptive statistics, probability distributions, estimation, types of error, significance level, test of hypotheses, sample size, correlation, linear regression, nonparametric methods. Emphasizes practical, applied aspects.
- 26-904-789 Design of Experiments, Spring Quarter, 1981, 1982, 1983, 1984, 1987, 1989, 1991, 1993. Study of the applications of randomized block, Latin square and factorial designs for scientific experimentation including confounding, fractional factorial. Fixed, random, mixed designs.
- 26-904-797 Rates and Proportions, Autumn Quarter, 1984, 1986, 1990, 1992. Statistical methods for analyzing discrete categorical and qualitative data: contingency tables, Fisher's exact, Mantel - Haenszel, McNemar's test, Cohen's Kappa statistic for inter-observer agreement.
- 26-904-887 Statistical Methods in Epidemiology, Winter Quarter, 1985; Autumn Quarter, 1987; Winter Quarter, 1991. Statistical methods for occupational and environmental health studies. Matching, stratification, risk estimation, logistic regression analysis, log - linear models.
- 26-905-864 Special Topics in Biostatistics: Genetic Data Analysis, Winter Quarter, 1993. Statistical methods for analysis of genetic data, including population and laboratory based studies. Frequency estimation, Hardy-Weinberg disequilibrium, genetic diversity, population structures, DNA sequence data.

**Emory University**

- BIOS 506 Biostatistical Methods I, Fall 1996; Fall 1997. Mathematically sophisticated presentations of principles and methods of data description; exploratory data analysis; graphics; point and confidence interval estimation; hypothesis testing; relative risk; odds ratio; Mantel Haenszel test; chi square tests; simple linear regression; correlation; and one and two sample parametric and nonparametric tests.
- BIOS 507 Biostatistical Methods II: Spring 1996. Mathematically sophisticated introduction to linear models; multiple regression; residual analysis; dummy variables; analysis of covariance; one and two way analysis of variance; randomized blocks; fixed and random effects; repeated measures; factorial designs; multiple comparisons; elements of survival analysis, Kaplan Meier curves, simple Cox regression, and smoothing.
- BIOS 520 Clinical Trials Methodology: Spring, 1998, 1999, 2000, 2001, 2002. Covers the organization, methodology, and reporting results of clinical trials. Topics covered include: conceptualization, ethical considerations, protocol adherence and compliance, and data collection, as well as statistical techniques such as randomization, double-blind techniques, sample size determination, and analysis considerations.
- BIOS 532 Statistical Computing, Spring, 1998. Programming style and efficiency, data management and data structures, hardware and software, pseudo-random number generation, and UNIX-based computing and graphical methods.
- BIOS 777 How to Teach Biostatistics, Spring 1995; Spring 1996; Fall 1996; Fall 1998; Fall 1999; Fall 2000; Fall 2001; Fall 2003; Fall 2005; Fall 2006; Fall 2007, Fall 2008, Fall 2009, Fall 2010, Fall 2011, Fall 2012, Fall 2013. Prepares the doctoral student for teaching introductory level courses in biostatistics.

- INFO 500 Principles of Public Health Informatics I, Spring, 2001 (taught as BIOS 591B), Fall, 2001. Provides an overview of the process of design, development, deployment, and maintenance of information systems for use in public health.
- INFO 501 Principles of Public Health Informatics II, Summer, 2001 (taught as BIOS 591E), Spring, 2002. Continues the themes developed in INFO 501, focusing on the opportunities and issues arising in specific public health information systems, e.g. disease registry systems, immunization registries, disease surveillance systems.
- INFO 560R Special Topics in Public Health Informatics: Bioinformatics for Public Health, Fall 2004, Fall 2010. Examines issues arising in developing relevant databases for bioinformatics within the public health context and relating them to other public health data sources.
- INFO 560R Special Topics in Public Health Informatics: Public Health Information Systems, Fall 2004. Examines issues arising in design, development, deployment and maintenance of information systems used in public health surveillance.
- INFO 560R Special topics in Public Health Informatics: Bioinformatics and PERL, Fall 2004, 2010. Develops programming skills in PERL and in use of other computational methods in bioinformatics. Examines issues arising in developing relevant databases for bioinformatics within the public health context and relating them to other public health data sources.
- INFO 560R Special Topics in Public Health Informatics: Bioinformatics using R and Bioconductor, Spring 2005. Develops programming skills in R and Bioconductor for use in analyzing microarray data.
- INFO 560R Special Topics in Public Health Informatics: Advanced GIS. Fall 2007, 2008. Explores advanced GIS tools such as 3D analysis, geodatabases, geoprocessing, network analysis, image processing, and geospatial analysis.
- BIOS 560R Network Science Seminar. Fall 2011. Exploration of basic and advanced topics in network science. Cross listed as MATH 577R. Fall 2011.
- GRAD 700R Network Science: Theory, Methods, and Applications. Spring 2013. Introduction to network science concepts with applications in many areas.
- INFO 544 Network Science for Public Health. Spring 2012, Fall 2012 (listed as INFO560R in 2012), Fall 2014, Fall 2015, Fall 2016. Introduction to network science concepts for application to public health issues.
- NRS 540 Network Science for Nursing Research. Fall 2015, Fall 2016. Introduction to network science concepts for application to nursing research.
- BIOS 560R Statistical Concepts in Network Science, Fall 2014. Extends INFO 544. Exponential random graph models, association models, infectious disease models.
- NRS 741 Big Data Analytics for Healthcare. Spring 2017, Spring 2018, Spring 2019, Spring 2020, Spring 2021. Data science techniques for use in analyzing healthcare research data.
- NRS 740 Omics in Health and Disease. Fall 2019, Fall 2020, Fall 2021. Application of high-throughput technologies for use in healthcare research.

POST-DOCTORAL  
SCHOLARS

**Post-doctoral Scholars**

Years	Name
2012-2013	P. Xavier Fernandes
2012-2013	Sudeshna Paul
2016-2016	Valerie Mac
2016-2018	Jacqueline Mix
2019-2021	Wenhui (Vivian) Zhang
2019-present	Madelyn Houser

GRADUATE  
STUDENTS

**Student Committees (University of Cincinnati)**

M.S. Thesis Committee Member:

Years	Name	Major
1980-81	Eric Thurston	Industrial Hygiene
1981-83	Patrick Bohan	Industrial Hygiene
1982-83	Anthony Kwok	Biostatistics
1982-83	Grace Wey	Biostatistics
1982-83	Victoria Dunovant	Industrial Hygiene
1983-84	Greta Splansky	Biostatistics
1984-85	Todd Valli	Industrial Hygiene
1985-86	Karen Hansen	Epidemiology
1987-88	Michael Cornett	Industrial Hygiene
1987-88	Cherryl Christensen	Occupational Medicine
1987-89	Donald Seiler	Industrial Hygiene
1987-89	Stuart Webster	Industrial Hygiene
1988-89	Jane Khoury	Biostatistics
1989-90	Charles Simpson	Industrial Hygiene

M.S. Thesis Advisor:

Years	Name	Major
1983-84	I-Yiin Chang	Biostatistics
1984-85	Michael Miller	Biostatistics
1986-87	Laura Edwards	Biostatistics
1989-90	Robert Venezia	Epidemiology

Ph.D. Qualifying Examination Committee Member:

Years	Name	Major
1981	Elizabeth Hansen	Biostatistics
1982	Katherine Hunninen	Industrial Hygiene
1982	Stephen Ruberg	Biostatistics
1982-83	Daniel Greathouse	Biostatistics
1984-85	Gail Greene	Biostatistics
1984-85	Clinton Cox	Industrial Hygiene
1984-85	Franco Merlo	Epidemiology
1985-85	Linda Shortridge	Epidemiology
1987	Susan Pinney	Epidemiology
1988	Dennis Bregman	Biostatistics
1990-91	Liang-Shi Chen	Biostatistics
1991-92	Yaw-Huei Hwang	Biostatistics
1991-92	Yuhua Li	Biostatistics
1991-92	Dona S. Jayawardena	Biostatistics
1994-97	Anthony Leonard	Biostatistics

Ph.D. Dissertation Committee Member:

Years	Name	Major
1981-83	James Gideon	Industrial Hygiene
1981-83	Bonny Specker	Epidemiology
1982-83	Kathleen Dietrich	Biostatistics
1983-88	Katherine Hunninen	Industrial Hygiene
1983-84	Patricia Holton	Industrial Hygiene
1984-85	Virginia Sublet	Toxicology
1985-87	Ellen Vigdorth	Epidemiology
1986-88	Linda Shortridge	Epidemiology
1988-90	Susan Pinney	Epidemiology
1990-92	Elizabeth Betemps	Epidemiology
1992-94	Robert Rinsky	Epidemiology
1994-1995	Robert Oster	Biostatistics
1994-2002	Anthony Leonard	Biostatistics

Ph.D. Dissertation Committee Chair:

Years	Name	Major
1982 -84	Stephen Ruberg	Biostatistics
1991-92	Liang-Shi Chen	Biostatistics
1992-94	Dona S. Jayawardena	Biostatistics

**Student Committees (Emory University)**

MPH Thesis Advisor:

Years	Name	Major
1996-97	Leah L. Nixon	Biostatistics

MSPH Thesis Committee Member:

Years	Name	Major
1995-2001	Jane Henley	Biostatistics

MSPH Thesis Advisor:

Years	Name	Major
1999-2000	Carrie Young	Biostatistics
2004-2005	Tielin Qin	Biostatistics
2006-2007	Cherie James	Biostatistics
2006-2007	Yi (Krystal) Lin	Biostatistics
2010-2011	Hasan Ahmed	Biostatistics
2010-2011	Eric Hill	Biostatistics
2011-2012	Tiffany Williams	Biostatistics
2012-2013	Marissa Person	Biostatistics
2013-2014	Yuke (Andrew) Wang	Biostatistics
2013-2014	Jiaxiang Gai	Biostatistics
2013-2014	Sara Seeman	Biostatistics
2013-2014	Sharada Ramakrishnan	Biostatistics
2015-2016	Jessica Chen	Biostatistics
2016-2017	Thi Minh Hieu (Hannah) Nguyen	Epidemiology
2016-2017	Christopher Carr	Epidemiology
2018-2019	Shihua Wang	Biostatistics & Bioinformatics

MS Thesis Advisor:

Years	Name	Major
2007-2008	Ling Liu	Computer Science (co-advisor with L. Xiong)
2008-2009	S. Margueritte Cox	Biostatistics
2008-2009	Tahera Darensburg	Biostatistics
2008-2009	Yaping Wang	Biostatistics
2008-2009	Meredith Scarberry	Biostatistics
2010-2011	Kyle Thayer	Computer Science (co-advisor with L. Xiong)
2015-2016	Wesley Spears	Computer Science

MSPH Special Studies Project Advisor:

Years	Name	Major
2001-2002	Zanetta Gaul	Public Health Informatics
2002-2004	Catherine Lindsay	Public Health Informatics
2001-2004	David Bray	Public Health Informatics
2004-2005	Mary George	Public Health Informatics
2004-2005	Nathalie Bastien	Public Health Informatics
2004-2005	Terri Shen	Public Health Informatics
2004-2005	Tarun Gulrajani	Public Health Informatics
2005-2006	Jamie Pina	Public Health Informatics
2005-2008	Vanessa Whitehurst	Public Health Informatics
2006-2007	Holly MacIntosh	Public Health Informatics
2007-2008	Andrea Plotsky	Public Health Informatics
2007-2008	Douglas Lowery	Public Health Informatics
2006-2008	Dorothy Chiu	Public Health Informatics
2008-2009	Kristi Eckerson	Public Health Informatics
2008-2009	Judith Nguimfack	Public Health Informatics
2009-2010	Joan Braithwaite	Public Health Informatics
2010-2011	Ye Ye	Public Health Informatics
2010-2012	Serdar Kurtkaya	Public Health Informatics
2011-2012	Marion Honu	Public Health Informatics
2008-2013	Stephanie Roberts	Public Health Informatics

Ph.D. Dissertation Committee Member:

Years	Name	Major
1996-1997	David Dunson	Biostatistics
1996 -199	Bindu Viswanathan	Biostatistics
1997-1999	Ujjwala Vijapurkar	Biostatistics
1997-1999	Xiaohong Mao	Biostatistics
1997-1999	Heidi Michels - Blanck	Nutrition
2002-2004	Elsa Wright	Nutrition
2004-2006	Aimee Webb	Nutrition
2008-2012	Dinorah Calles	Epidemiology
2011-2013	Hesen Peng	Biostatistics
2016-2018	Samantha Noreen	Biostatistics
2016-2018	Kylie Ainslie	Biostatistics
2016-2018	Kent Haythorn	Nursing
2016-2019	Charlotte Quigley	Marine Biology (U of Maine)
2017-2019	Alan Jones	Nursing
2017-2019	Abby Mutic	Nursing
2018-2020	Roxana Chicas	Nursing
2020-present	Emily Wissel	Nursing
2021-2021	Mani Sotoodeh	Computer Science

Ph.D. Dissertation Committee Chair:

Years	Name	Major
1999-2003	Fan Xu	Biostatistics
2005-2009	Megan Price	Biostatistics
2008-2011	Tielin Qin	Biostatistics
2009-2011	Roy Xu	Biostatistics
2011-2014	Christina Mehta	Biostatistics
2012-2015	Margaret Bray	Biostatistics
2013-2016	Isabel Chen	Mathematics (co-advisor with M. Benzi)
2016-2021	Thomas Flynn	Nursing
2017-2020	Jasmine Nakayama	Nursing
2018-2021	Kent Haythorn	Nursing
2018-2021	Daniel Smith	Nursing

Academic Advisor (University of Cincinnati):

Jih-An Sue  
Greta Splansky  
Steve Ruberg  
I-Yiin Chang  
Joel Miller  
Michael Miller  
Laura Edwards  
Adeline Siegel  
Kathleen Robinette  
Dan Weigold  
Liang - Shi Chen  
Dona Jayawardena  
Leigh Ren  
Anthony Leonard  
Deanna Wild

Academic Advisor (Emory University):

Michael Lewin  
Michael Hudgens  
Fan Xu  
Marisa Kamin  
Stephanie Neill Letellier  
Jovonne Williams  
Katherine Jackson  
Alicia Edwards  
Ryan Burke  
Megan Price  
Tielin Qin  
Jamie Pina  
Douglas Lowery-North  
Dorothy Chiu  
Kristi Eckerson  
Serdar Kurtkaya  
Ye Ye  
Marian Honu  
Gerard Lopez  
Jordan Kennedy  
Matthew Gregory