

COLLEGE OF PUBLIC HEALTH CURRICULUM VITAE

Miriam Bridget Zimmerman

May 30, 2018

I. EDUCATIONAL AND PROFESSIONAL HISTORY

A. Education (least to most recent)

<u>Institution</u>	<u>Dates Attended</u>	<u>Field of Study</u>	<u>Degree Obtained</u>	<u>Date</u>
University of the Philippines at Los Banos	1975-78	Statistics	B.S.	1978
University of the Philippines at Los Banos	1979-81	Statistics	M.S.	1982
Iowa State University	1982-84	Statistics	M.S.	1984
Iowa State University	1984-87	Statistics & Industrial Engineering	Ph.D.	1987

B. Professional and Academic Positions

<u>Position</u>	<u>Dates of Service</u>	<u>Location/Institution</u>
Programmer	1978-79	Policy and Technical Group, University of the Philippines at Los Banos, Laguna, Philippines
Instructor	1979-81	Department of Statistics, University of the Philippines at Los Banos, Laguna, Philippines
Programmer	1980-81	Department of Agronomy, University of the Philippines at Los Banos, Laguna, Philippines
Teaching Assistant	1981-82	Department of Statistics, State University of New York at Buffalo
Research Assistant	1982-87	Department of Statistics Iowa State University
Visiting Assistant Professor	1987-88	Department of Statistics University of Iowa, Iowa City, IA

Assistant Research Scientist	1988-94	Department of Preventive Medicine, Division of Biostatistics, University of Iowa College of Medicine
Director, Biostatistics Consulting Center	1990-present	Department of Biostatistics, University of Iowa College of Public Health (established in 1999)
Associate Research Scientist	1995-2003	Department of Biostatistics, University of Iowa College of Public Health (established in 1999)
Adjunct Associate Professor	2003	Department of Biostatistics, University of Iowa College of Public Health
Associate Professor (Clinical)	2003-2008	Department of Biostatistics, University of Iowa College of Public Health
Professor (Clinical)	2008-present	Department of Biostatistics, University of Iowa College of Public Health
Associate Director of the ICTS Biostatistics Core	2009-present	Institute for Clinical and Translational Science at The University of Iowa

C. Honors, Awards, Recognitions, Outstanding Achievements
(least to most recent)

<u>Year</u>	<u>Title</u>
1978	Cum Laude, B.S., University of the Philippines at Los Banos
1984	Mu Sigma Rho, Statistics Honor Society, Iowa Alpha Chapter (Iowa State University)

II. TEACHING AT THE UNIVERSITY OF IOWA

A. Teaching Assignments on semester-by-semester basis (least to most recent) (classroom, seminar, teaching lab)

Semester, <u>Year</u>	Course Title/ <u>Number</u>	Semester <u>Hours</u>	# <u>Students</u>	<u>Role</u>	Percent <u>Responsible</u>
Fall 1987	22S:120 Probability and Statistics	3 s.h.	~15-20	Instructor	100%
Fall 1987	22S:39 Probability and Statistics for Engineering and Physical Sciences	3 s.h.	~15-20	Instructor	100%
Spring 1988	22S:120 Probability and Statistics	3 s.h.	~15-20	Instructor	100%
Spring 1988	22S:39 Probability and Statistics for Engineering and Physical Sciences	3 s.h.	~15-20	Instructor	100%
Spring 2005	171:282 Biostat Consulting	1 s.h.	3	Instructor	100%
Spring 2006	171:282 Biostat Consulting	1 s.h.	4	Instructor	100%

B. Students Advised

Dissertations/Thesis

<u>Name</u>	<u>Degree Objective</u>	<u>Role</u>	<u>Outcome</u>
Ghalib Adel Abbasi	MS (Pharmacy)	Committee Member	Completed 2002
Dan Anton	PhD (Physical Therapy)	Committee Member	Completed 2002
Matthew Dickson	PhD (Interdisciplinary Genetics Program)	Committee Member	Completed 2008
Kari Harlan	PhD (Epidemiology)	Committee Member	Completed 2010
Gayle Reardon	MS (Stomatology)	Committee Member	Completed 2010
Jennifer Hauser	PhD (Community and Behavioral Health)	Committee Member	Not completed 2008-2009
Megan Liu	PhD (Nursing)	Committee Member	Completed 2011
Erin Reynolds	PhD (Epidemiology)	Committee Member	Completed 2012
Tao Zhang	PhD (Biostatistics)	Committee Member	Completed 2013
Nicole P. Blodgett	PhD (Nursing)	Committee Member	Completed 2014
Georgina Moreno	PhD (Neuroscience)	Committee Member	Completed 2015

Nicholas Cooper	PhD (Physical Therapy)	Committee Member	Completed 2017
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C. Other Advising/Mentoring

Clinical Teaching (precepting, teaching rounds, etc.)

Supervise and train 3 to 5 50% FTE Graduate Research Assistants each year appointed to the Biostatistics Consulting Center in biostatistical collaboration.

Graduate Students trained/supervised in the Biostatistics Consulting Center

Name	Degree	Year/s trained/supervised*
Chi Kao	PhD	1990-91
Linda Rubenstein	PhD	1990-92
Michael Carpin	MS	1992-93
Ta-Ching Gary Jeng	PhD	1992-93
Cynthia Long	PhD	1992-94
Taekyu Hwang	PhD	1993-95
Rema Raman	MS	1994-96
Shenhui Tang	MS/PhD	1994-95
Suzanne Bentler	MS	1994-96
Joyce Quella	MS	1995-96
Leslie Ain	MS	1995-96
Jeffrey Allen	MS/PhD	1996-98
Farideh Dehkordi	PhD	1997-98
Sheela Kolluri	PhD	1997-98
Wenquan Wang	MS/PhD	1998-99
Bongin Yoo	PhD	1998-99
Deli Wang	MS/PhD	1999-2000
Ye Tan	MS	2000-01
Wei Zhang	MS/PhD	2000-01
Taikyoung Kim	MS	2002-03
Suhong Zhang	MS	2002-03
Lixian Sun	MS	2002-03
Emine Bayman	MS/PhD	2003-04
Wei Qiao	MS	2003-04
Jie Zhang	MS	2003-04
Mei Huang	MS	2003-05
Jihey Lee	MS	2004
Yu-hui Huang	MS	2004-06
Yingwei Qi	MS	2004-06
Nan Wang	MS	2005-06
Zhiwei Wang	MS	2005-07
Shanshan Zhao	MS	2005-06
Junting Zheng	MS	2006-07
Qian Wang	MS	2006-07
Jingyang Zhang	MS	2006-07

Diqiong Xie	MS/PhD	2006-2011
Zhiguo Zheng	PhD	2007-2008
Rachel Fonstad	MS	2007-2008
Shishao Shen	MS student	2007-2008
Angela Meisterling	MS	2008
Tao Zhang	MS/PhD	2008-2013
Rachel Miller	MS	2008-2009
Skyler Johnson	MS	2008-2010
Chelsea Caspell	MS	2009-2010
Vera Rayevskaya	MS	2010
Ke Liu	MS/PhD	2010-2011, 2013-2015
Jose Alvarado	MS Student	2010-11
Lizette Ortega	PhD Student	2012-13
Carmen Smith	PhD Student	2013-14
Biyue Dai	MS Student	2014
Monelle Tamegnon	PhD Student	2015
Kimberly Wooge	MS	2014-2015
Elizabeth Bair	MS Student	2015-2016
Anthony Rhoades	MS	2016
Cody Hansen	MS	2017
Evan Walser-Kuntz	MS Student	2017

*Years trained may be approximate time period

Train fellows, residents, and medical faculty in biostatistics research methods on a one-to-one basis through interactions in the Biostatistics Consulting Center.

Assist and train medical faculty on writing statistical sections for grants.

Supervised preceptorship project of Wei Qiao (Modeling the changes in erythrocyte sedimentation rate (ESR) during the course of steroid therapy in Giant Cell Arteritis patients), Spring 2004.

Mentored Gideon Zamba, visiting assistant professor, in the practice of providing professional biostatistical consulting (2003-2004)

Presented lecture on sample size for 173:210 Writing a Research Protocol –October 2004; September 2005; June 2006; October 2006; June 2007; September 2007; June 2008; September 2009

Supervisor for preceptorship project for Mei Huang, Spring 2005.
MPH practicum Committee member for Aditya Bardia, Spring 2005.

Supervisor for preceptorship project for Yu-Hui Huang, Nan Wang, and Yingwei Qi, Spring 2006.

Consultation session with students on sample size/design for Epidemiology class

(173:210/211 Writing a Research Protocol) – October 2010, October 2011, October 2012, October 2013, October 2014

Guest lecture for 173:240 Epidemiology II: Advanced Methods – February 2012, February 2013

Consultation session with students on sample size/design for Epidemiology class (173:210/211 Writing a Research Protocol) – October 2016, March 2017, October 2017

Guest lecture Comparative Effectiveness and Patient-Centered Outcomes Research: Webinar Course No. BE-8025 -- Methods for Preventing and Handling Missing Data, Nov 2016

Guest lecture Medical Student Research Skills Seminar MED 8074 – Study Design Considerations, Nov 2016

D. Other Contributions to Institutional Programs

Institutional Conferences, Grand Rounds, Journal Club

<u>Date</u>	<u>Title</u>	<u>Location</u>
June 2007	Sample Size in Study Design: Examples in Allergy and Immunology	Allergy and Immunology Grand Rounds (GH)
April 2009	Using SAS Proc Power	UI SAS Users Group
July 2009	Intro to SAS Programming	UI SAS Summer Institute
Aug 2010	Intro to SAS Programming	UI SAS Boot Camp
Aug 2011	Sample Size/Power using SAS	UI SAS Users Group
Nov 2011	Statistical Analysis and Sample Size: The Basics	UI Basic Sciences Postdoc Career Enhancement group
Aug 2013	Sample Size/Power using SAS	UI SAS Users Group
April 2015	Statistical Power and Sample Size Calculations	UI Basic Sciences Post-doctoral Career Enhancement group
Mar 2016	Enhancing the Reproducibility of PreClinical Science through Better Research Design and Reporting	ICTS Biostatistics Core 3-part lecture series
Feb 2017	Sample Size and Power	Ophthalmology Grand Rounds
Feb 2017	Statistical Analysis: The Basics	Ophthalmology Grand Rounds

III. SCHOLARSHIP

A. Publications or Creative Works (least to most recent)

Peer-Reviewed Papers

1. Sposito VA, Tirol (Zimmerman) MB. Computational Aspects of the Two-Way Classification Model Under L_1 . Computational Statistics Quarterly, 4:289-298, 1989.
2. Zimmerman DL, Zimmerman MB. A Monte Carlo comparison of spatial semivariogram estimators and corresponding ordinary kriging predictors. Technometrics, 33:77-91, 1991.
3. Brown WK, Zimmerman B, Jenkins RL, Rhodes WA. Recognizing delinquents who may need special help to avoid criminal conviction in adult life. Juvenile and Family Court Journal, 24(4):35-40, 1991.
4. Pe'er J, Folberg R, Massicotte SJ, Baron J, Parys-Van Ginderdeuren R, Zimmerman B, Meyer ML, Worsley H. Clinicopathologic spectrum of primary uveal melanocytic lesions in an animal model. Ophthalmology 99(6):977-986, 1992. PMID: 1630787
5. Hayreh SS, Zimmerman MB, Podhajsky P. Seasonal variation in the onset of retinal vein occlusion. British Journal of Ophthalmology, 76(12):706-710, 1992. PMID: 1486069
6. Smith RJ, Zimmerman B, Connolly PK, Jerger SW, Yelich A. Screening audiometry using the high risk register in a level III nursery. Archives of Otolaryngology Head Neck Surgery, 118:1306-1311, 1992. PMID: 1449689.
7. Pulido JS, Shires TK, Flynn HW Jr, Zimmerman MB, Folk JC, Scott MH. Intravitreal aminoglycoside toxicity revisited. Archives of Ophthalmology 110(12):1683-1685, 1992. PMID: 1463399
8. Tomanek RJ, Butters CA, Zimmerman MB. Initiation of cardiac hypertrophy in response to thyroxine is not limited by age. American Journal of Physiology 264 (Heart Circulation Physiology 33), H1041-H1047, 1993
9. Saag KG, Koehnke R, Caldwell JR, Brasington R, Burmeister LF, Zimmerman B, Kohler J, Furst DE. Low dose long-term corticosteroid therapy in rheumatoid arthritis: An analysis of serious adverse events. American Journal of Medicine 96:115-123, 1994. PMID: 8109596
10. Hayreh SS, Zimmerman MB, Podhajsky P. Incidence of various types of retinal vein occlusion and their recurrence and demographic characteristics. American Journal of Ophthalmology 117(4):429-441, 1994. PMID: 8154523
11. Hayreh SS, Zimmerman MB, Podhajsky P. Nocturnal arterial hypotension and its role in optic nerve head and ocular ischemic disorders. American Journal of Ophthalmology 117(5):603-624, 1994. PMID: 8172267
12. Lorenzo JF, Canady JW, Zimmerman MB, Smith RJH. The effects of midfacial surgical trauma and rigid plate fixation on cranio facial growth in rabbits. Archives of Otolaryngology - Head Neck Surgery 121(5):556-561, 1995.
13. Pinkston DR, Schubkegel AJ, Zimmerman MB, Smith RJH. The effects of sinus surgery on midfacial growth in the rabbit. American Journal of Rhinology 9:115-124, 1995.

14. Noyes R, Woodman CL, Holt CS, Reich JH, Zimmerman MB. Avoidant personality traits distinguish social phobic and panic disorder subjects. Journal of Nervous and Mental Disease 183:145-153, 1995. PMID: 7891060
15. Canady, JW, Wayne I, Fellows DR, Zimmerman MB, Lorenzo JF, Thompson SA. Craniofacial growth in rabbits after rigid or semi-rigid fixation of the frontonasal suture. Plastic and Reconstructive Surgery 98(3):410-417, 1996. PMID: 8700974
16. Dyken ME, Somers VK, Yamada T, Zimmerman MB. Investigating the relationship between stroke and obstructive sleep apnea. Stroke 27(3):401-407, 1996. PMID: 8610303
17. Tobacman JK, Lee P, Zimmerman B, Kolder H, Hilborne L, Brook R. Assessment of appropriateness of cataract surgery at ten academic medical centers in 1990. Ophthalmology 103(2):207-215, 1996. PMID: 8594503
18. Mathers WD, Lane JA, Sutphin JE, Zimmerman MB. Model for ocular tear film function. Cornea 15(2):110-119, 1996. PMID: 8925657
19. Mathers WD, Lane JA, Zimmerman MB. Tear film changes associated with normal aging. Cornea 15(3):229-234, 1996. PMID: 8713923
20. Culp K, Flanigan M, Lowrie EG, Lew N, Zimmerman B. Modeling mortality risk in hemodialysis patients using laboratory values as time-dependent covariates. American Journal of Kidney Diseases 28(5):741-746, 1996. PMID: 9158214
21. Hayreh SS, Podhajsky PA, Raman R, Zimmerman B. Giant cell arteritis: validity and reliability of various diagnostic criteria. American Journal of Ophthalmology 123(3):285-296, 1997. PMID: 9063237
22. Soffer EE, Adrian TE, Launspach J, Zimmerman B. Meal-induced secretion of gastrointestinal regulatory peptides is not affected by sleep. Neurogastroenterology and Motility 9(1):7-12, 1997.
23. Carlson DW, Alward WLM, Barad JP, Zimmerman MB, Carney BL. A randomized study of Mitomycin augmentation in combined phacoemulsification and trabeculectomy. Ophthalmology 104(4):719-724, 1997.
24. Mathers WD, Lane JA, Zimmerman MB. Assessment of the tear film with tandem scanning confocal microscopy. Cornea 16(2):162-168, 1997. PMID: 9071529
25. Hayreh SS, Podhajsky PA, Zimmerman B. Nonarteritic anterior ischemic neuropathy-Time of onset of visual loss. American Journal of Ophthalmology 124(5):641-647, 1997. PMID: 9372718
26. Vandeborne P, Montano N, Zimmerman B, Pagani M, Somers VK. Relationship between repeated measures of hemodynamics, muscle sympathetic nerve activity, and their spectral oscillations. Circulation 96(12):4326-4332, 1997.
27. Rao SSC, Welcher K, Zimmerman B, Stumbo P. Is coffee a colonic stimulant. European Journal of Gastroenterology & Hepatology 10(2):113-118, 1998.
28. Funk GF, Hoffman HT, Karnell LH, Ricks JM, Zimmerman MB, Corbae DP, Hussey DH, McCulloch TM, Graham SM, Dawson CJ, Means ME, Colwill ML, Titler MG, Smith EM. Cost-identification analysis in oral cavity cancer management. Otolaryngology-Head & Neck Surgery 118(2):211-220, 1998. PMID: 9482555

29. Hayreh SS, Podhajsky PA, Zimmerman B. Ocular manifestations of giant cell arteritis. American Journal of Ophthalmology 125(4):509-520, 1998. PMID: 9559737
30. Hayreh SS, Podhajsky PA, Zimmerman B. Occult giant cell arteritis: ocular manifestations. American Journal of Ophthalmology 125(4):521-526, 1998. PMID: 9559738
31. Tomanek RJ, Zimmerman MB, Suvarna PR, Morkin E, Pennock GD, Goldman S. A thyroid hormone analog stimulates angiogenesis in the post-infarcted rat heart. Journal of Molecular and Cellular Cardiology 30:923-932, 1998.
32. Murph JR, Souza IE, Dawson JD, Benson P, Petheram SJ, Pfab D, Gregg A, O'Neill ME, Zimmerman B, Bale JF. Epidemiology of congenital cytomegalovirus infection: maternal risk factors and molecular analysis of cytomegalovirus strains. American Journal of Epidemiology 147(10):940-947, 1998. PMID: 9596472
33. Mathers WD, Stovall D, Lane JA, Zimmerman MB, Johnson S. Menopause and tear function: The influence of prolactin and sex hormones on human tear production. Cornea 17(4):353-358, 1998. PMID: 9676904
34. Tobacman JK, Zimmerman B, Lee P, Hilborne L, Kolder H, Brook RH. Visual function impairments in relation to gender, age, and visual acuity in patients who undergo cataract surgery. Ophthalmology 105(9):1745-1750, 1998. PMID: 9754186
35. Hayreh SS, Jonas JB, Zimmerman MB. Parapapillary chorioretinal atrophy in chronic high-pressure experimental glaucoma in rhesus monkeys. Investigative Ophthalmology & Visual Science 39(12):2296-2303, 1998. PMID: 9804138
36. Bale JF, Zimmerman B, Dawson JD, Souza IE, Petheram SJ, Murph JR. Cytomegalovirus transmission in child care homes. Archives of Pediatrics & Adolescent Medicine 153(1):75-79, 1999. PMID: 9895003
37. Hayreh SS, Pe'er J, Zimmerman MB. Morphologic changes in chronic high-pressure experimental glaucoma in rhesus monkeys. Journal of Glaucoma 8(1):56-71, 1999. PMID: 10084276
38. Hayreh SS, Podhajsky P, Zimmerman MB. Role of nocturnal arterial hypotension in optic nerve head ischemic disorders. Ophthalmologica 213(2):76-96, 1999. PMID: 9885384
39. Hayreh SS, Podhasky P, Zimmerman MB. Beta-blocker eyedrops and nocturnal arterial hypertension. American Journal of Ophthalmology 128(3):301-309, 1999.
40. Hayreh SS, Podhajsky P, Zimmerman MB. Ocular and optic nerve head ischemic disorders and hearing loss. American Journal of Ophthalmology 128(5):606-611, 1999. PMID: 10577529
41. Tobacman JK, Scott IU, Cyphert S, Zimmerman B. Reproducibility of measures of overuse of cataract surgery by three physician panels. Medical Care 37(9):937-945, 1999. PMID: 10493471
42. Herwaldt L, Scholz D, Zimmerman B, Pfaller MA, Perl TM, Cullen JJ. The economic impact of surgical site infections: A prospective study of outcomes, health care utilization, and hospital costs. Surgical Forum L:680-681, 1999.
43. Arnold DJ, Funk GF, Karnell LH, Chen AH, Hoffman HT, Ricks JM, Zimmerman MB, Corbae DP, Zhen W, McCulloch TM, Graham SM. Laryngeal cancer cost analysis:

- Association of case-mix and treatment characteristics with medical charges. Layngoscope 110(1):1-7, 2000. PMID: 10646706
44. Trigg ME, Peters C, Zimmerman MB. Administration of recombinant human granulocyte-macrophage colony-stimulating factor to children undergoing allogenic marrow transplantation: A prospective, randomized, double-masked placebo-controlled trial. Pediatric Transplantation 4:123-131, 2000.
 45. Lin JC. Strauss RG. Kulhavy JC. Johnson KJ. Zimmerman MB. Cress GA. Connolly NW. Widness JA. Phlebotomy overdraw in the neonatal intensive care nursery. Pediatrics 106(2):NIL27-NIL32, 2000. PMID: 10920175
 46. Lutgendorf SK, Kreder KJ, Rothrock NE, Ratliff TL, Zimmerman B. Stress and symptomatology in patients with interstitial cystitis: A laboratory stress model. Journal of Urology 164:1265-1269, 2000. PMID: 10992377
 47. Kwon YH, Taylor JM, Sungpyo H, Honhaken RA, Zimmerman MB, Alward WLM, Sutphin JE. Long-term results of eyes with penetrating keratoplasty and glaucoma drainage tube implant. Ophthalmology 108:272-278, 2001.
 48. Hayreh SS, Zimmerman B, McCarthy MJ, Podhajsky P. Systemic diseases associated with various types of retinal vein occlusion. American Journal of Ophthalmology 131(1):61-77, 2001. PMID: 11162981
 49. Jogerst G, Daly J, Zimmerman MB. Physician use of and attitudes regarding the minimum data set. Journal of the American Medical Directors Association 2:4-9, 2001. PMID: 12812598
 50. Rothrock NE, Lutgendorf SK, Kreder KJ, Ratliff T, Zimmerman B. Stress and symptoms in patients with interstitial cystitis: A life stress model. Urology 57(3):422-427, 2001. PMID: 11248609
 51. Rothrock NE, Lutgendorf SK, Kreder KJ, Ratliff TL, Zimmerman B. Daily stress and symptom exacerbation in interstitial cystitis patients. Urology 57(6 Suppl 1):122, 2001. PMID: 11378108
 52. Tobacman JK, Wallace RB, Zimmerman MB. Consumption of carrageenan and other water-soluble polymers used as food additives and incidence of mammary carcinoma. Medical Hypotheses 56(5):589-598, 2001. PMID: 11388773
 53. Hunninghake GW, Zimmerman MB, Schwartz DA, King TE, Lynch J, Hegele R, Waldron J, Colby T, Muller N, Lynch D, Galvin J, Gross B, Hogg J, Toews G, Helmers R, Cooper JAD, Baughman R, Strange C, Millard M. Utility of a lung biopsy for the diagnosis of idiopathic pulmonary fibrosis. American Journal of Respiratory and Critical Care Medicine 164(2):193-196, 2001. PMID: 11463586
 54. Kwon YH, Kim CS, Zimmerman MB, Alward WLM, Hayreh SS. Rate of visual field loss and long term visual outcome in primary open-angle glaucoma. American Journal of Ophthalmology 132:47-56, 2001.
 55. Hayreh SS, Podhajsky PA, Zimmerman B. Ipsilateral recurrence of nonarteritic ischemic optic neuropathy. American Journal of Ophthalmology 132(5):734-742, 2001. PMID: 11704035
 56. Tobacman JK. Scott IU. Cyphert ST. Zimmerman MB. Comparison of appropriateness ratings for cataract surgery between convened and mail-only

- multidisciplinary panels. Medical Decision Making 21(6):490-497, 2001. PMID: 11760106
57. Lutgendorf SK, Kreder KJ, Rothrock NE, Hoffman A, Kirschbaum C, Sternberg EM, Zimmerman MB, Ratliff TL. Diurnal cortisol variations and symptoms in patients with interstitial cystitis. Journal of Urology 167(3):1338-1343, 2002. PMID: 11832727
 58. Petersen LA, Lindner DS, Kleiber CM, Zimmerman, MB, Hinton AT, Yankowitz J. Factors that predict low hematocrit levels in the postpartum patient after vaginal delivery. Journal of Obstetrics & Gynecology 186(4):737-744, 2002.
 59. Perl TM, Cullen JJ, Wenzel RP, Zimmerman MB, Pfaller MA, Sheppard D, Twombly J, French PP, Herwaldt LA. Intranasal mupirocin to prevent postoperative staphylococcus aureus infections. New England Journal of Medicine 346(24):1871-1877, 2002. PMID: 12063371
 60. Hayreh SS, Zimmerman MB, Podhajsky P. Hematologic abnormalities associated with various types of retinal vein occlusion. Graefes Archive for Clinical & Experimental Ophthalmology 240(3):180-96, 2002. PMID: 11935275
 61. Hayreh SS, Zimmerman B, Kardon RH. Visual improvement with corticosteroid therapy in giant cell arteritis. Report of a large study and review of literature. Acta Ophthalmologica Scandinavica 80:353-367, 2002. PMID: 12190776
 62. Zhang Y, Clark CB, Davies LR, Karlsson G, Zimmerman MB, Kerber KE. Body weight is a predictor of biphasic shock success for low energy transthoracic defibrillation. Resuscitation 54:281-287, 2002.
 63. Alward WLM, Kwon YH, Khanna CL, Johnson AT, Hayreh SS, Zimmerman MB, Narkiewicz J, Andorf JL, Moore PA, Fingert JH, Sheffield VC, Stone EM. Variations in the myocilin gene in patients with open-angle glaucoma. Archives of Ophthalmology 120(9):1189-1197, 2002.
 64. Kayali Z, Buckwold VE, Zimmerman B, Schmidt WN. Hepatitis C, cryoglobulinemia, and cirrhosis: A meta-analysis. Hepatology. 36(4 Part 1):978-985, 2002. PMID: 12297847
 65. Graul TA, Kwon YH, Zimmerman MB, Kim CS, Sheffield VC, Stone EM, Alward WLM. A case-control comparison of the clinical characteristics of glaucoma and ocular hypertensive patients with and without the myocilin Gln368Stop mutation. American Journal of Ophthalmology 134:884-890. 2002. PMID: 12470758
 66. Pereira MLM, Kim CS, Zimmerman MB, Alward WLM, Hayreh SS, Kwon YH. Rate and pattern of visual field decline in primary open-angle glaucoma. Ophthalmology 109(12):2232-2240, 2002.
 67. Bergamin O, Zimmerman MB, Kardon RH. Pupil light reflex in normal and diseased eyes - Diagnosis of visual dysfunction using waveform partitioning. Ophthalmology. 110(1):106-114, 2003. PMID: 12511354
 68. Herwaldt LA, Swartzendruber SK, Zimmerman MB, Scholz DA, Franklin JA, Caldarone CA. Hemorrhage after coronary artery bypass graft procedures. Infection Control and Hospital Epidemiology 24(1):44-50, 2003. PMID: 12558235

69. Tobacman JK, Whitaker D, Zimmerman B. Inverse relationship between density of cutaneous hair and pigmented lesion count in patients with malignant melanoma. Melanoma Research 13(1):23-27, 2003. PMID: 12569281
70. Honkanen RA, Baruah S, Zimmerman MB, Khanna CL, Weaver YK, Narkiewicz J, Waziri R, Gehrs KM, Weingeist TA, Boldt HC, Folk JC, Russell SR, Kwon YH. Vitreous amino acid concentrations in patients with glaucoma undergoing vitrectomy. Archives of Ophthalmology. 121(2):183-188, 2003. PMID: 12583783
71. Tobacman JK, Zimmerman B, Lee P, Hilborne L, Kolder H, Brrok RH. Visual acuity following cataract surgeries in relation to preoperative appropriateness ratings. Medical Decision Making 23(2):122-130, 2003. PMID: 12693874
72. Zhang Y, Davies LR, Coddington WJ, Zimmerman MB, Wuthrich S, Jones JL, Kerber RE. Open-chest epicardial "surgical" defibrillation: Biphasic versus monophasic wave-form shocks. Pacing and Clinical Electrophysiology 26(3):711-718, 2003. PMID: 12698671
73. Hayreh SS, Zimmerman B. Management of giant cell arteritis: Our 27-Year Clinical Study: New Light on Old Controversies. Ophthalmologica 217:239-259, 2003. PMID: 12792130
74. Hayreh SS, Zimmerman B. Visual deterioration in giant cell arteritis patients while on high doses of corticosteroid therapy. Ophthalmology 110:1204-1215, 2003. PMID: 12799248
75. Brown KE, Khan CM, Zimmerman MB, Brunt EM. Hepatic iron overload in blacks and whites: a comparative autopsy study. American Journal of Gastroenterology 98(7):1594-1598, 2003. PMID: 12873584
76. Dyken ME, Lin-Dyken DC, Poulton S, Zimmerman MB. Prospective polysomnographic analysis of obstructive sleep apnea in Down syndrome. Archives of Pediatrics & Adolescent Medicine 157(7):655-660, 2003. PMID: 12860786
77. Zhang Y, Ramabadran RS, Boddicker KA, Bawaney I, Davies LR, Zimmerman MB, Wuthrich S, Jones JL, Kerber RE. Triphasic waveforms are superior to biphasic waveforms for transthoracic defibrillation. Journal of the American College of Cardiology 42(3):568-575, 2003. PMID: 12906990
78. Rao SSC, Mudipalli RS, Mujica VR, Patel RS, Zimmerman B. Effects of gender and age on esophageal biomechanical properties and sensation. American Journal of Gastroenterology 98(8):1688-1695, 2003.
79. Kwon YH, Kim YI, Pereira ML, Montague PR, Zimmerman MB, Alward WL. Rate of optic disc cup progression in treated primary open-angle glaucoma. Journal of Glaucoma 12(5):409-416, 2003. PMID: 14520149
80. Hayreh SS, Zimmerman MB, Beri M, Podhajsky P. Intraocular pressure abnormalities associated with central and hemicentral retinal vein occlusion. Ophthalmology 111(1):133-141, 2004. PMID: 14711725
81. Hayreh SS, Zimmerman MB, Kimura A, Sanon A. Central retinal artery occlusion. Retinal survival time. Experimental Eye Research 78(3):723-736, 2004. PMID: 15106952

82. Snetselaar L, Stumbo P, Chenard C, Ahrens L, Smith K, Zimmerman B. Adolescents eating diets rich in either lean beef or lean poultry and fish reduced fat and saturated fat intake and those eating beef maintained serum ferritin status. Journal of the American Dietetic Association 104(3):424-428, 2004. PMID: 14993866
83. Lowe MP, Zimmerman B, Hansen W. Prospective randomized controlled trial of fetal fibronectin on preterm labor management in a tertiary care center. American Journal of Obstetrics and Gynecology 190(2): 358-362, 2004. PMID: 14981374
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Non-Peer-Reviewed Papers (reports, proceedings, etc.)

1. Bautista DV, Scott WE, Zimmerman B, Sarin S. Longterm effectiveness of bilateral medial retus recession in congenital esotropia and acquired accommodative and nonaccommodative esotropia. Update on Strabismus and Pediatric Ophthalmology, edited by Gunnar Lennerstrand, Chapter 12:240-243. CRC Press, Boca Raton, Florida, 1995. (*Role: Statistical analysis, Writing of statistical section*)

2. Chenard CA, Zimmerman MB, Smith KL, Nonnie PF, Wahls TL. New measurement weight for one cup raw kale reduces nutrient intake of individuals following the Wahls™ diet. Procedia Food Science, edited by Mitchell DC and Braithwaite E, Volume 4:39-47. Elsevier Science BV, Amsterdam, Netherlands, 2015.

Other (example, letter to the editor)

1. Chenhsu RY, Wu YM, Min DI, Zimmerman MB. Effects of mycophenolate mofetil on hematocrit after renal transplantation. Annals of Pharmacotherapy 36(9):1479-80, 2002.
2. Zimmerman MB. Book review: SAS Programming and Data Analysis: A Theory and Program-Driven Approach by Leonard C. Onyiah. The American Statistician 61(3): 277-278(2), 2007.
3. Abrons RO, Zimmerman MB, El-Hattab YMS. Comparing bougie-guided and conventional nasotracheal intubations using videolaryngoscopy - a reply. Anaesthesia 73(3):393, 2018. PMID: 29437214

B. Areas of Research Interest/Current Projects

1. Sample size and power.
2. Longitudinal data analysis
3. Logistic regression models

C. Grants Received (ALL grants, least to most recent)

Title	Source	% Effort	Direct Funds
P.I.		% Salary Support	Period of Funding
2P01HL14388-26	Francois M. Abboud	20%	3/08/98-12/31/02
(PI)			
NIH			
Integrative Neurobiology of Cardiovascular Regulation - PPG			
The overall objective of this Program Project Grant is to study the regulation of the circulation in pathological states. The approach is currently under investigation including cardiac and vascular cells in culture, isolated systems, and animal models of disease, normal human subjects, and patients.			
Role: Biostatistician in Biostatistics Core			
(NOTE: This is the third renewal continuation of this 5-year grant of which I have been supported for the periods 1988-93 and 1993-98)			
1R01NR04886-01A1	Martin, Rene (PI)	5%	4/1/00-3/31/03
NIH			\$1,005, 680
Lay CHD Representations and Women's Self-Referral for MI			

The major goal of this project is to investigate how lay people's cognitive representation of coronary heart disease contribute to delays in seeking medical care for symptoms of acute myocardial infarction, with an emphasis on female victims.

Role: Statistical Consultant

R01 HD39000 M. Kathleen Clark (PI) 5% 02/01/00-01/31/04
 NICHD
 Depo-provera and bone density in premenopausal women
 Role: Statistical Consultant

2M01 RR00059 Robillard, Jean (PI) 30% 03/01/03 – 02/28/08
 NIH \$21,083,313
 General Clinical Research Center
 General Clinical Research Center for the University of Iowa.
 Role: Biostatistician
 (NOTE: This is the renewal continuation of this 5-year grant of which I have been supported for the period 1998-03)

1 P01 ES1 2020-01 Birt, Diane F. (PI) 27% 07/01/02 – 06/30/07
 NIH \$7,156,941
 Center for Research on Botanical Dietary Supplements
 The Center for Research on Dietary Botanical Supplements at Iowa State University and The University of Iowa will link two traditional strong complementary institutions and focus their effort on important research on botanical supplements.
 Role: Biostatistician for Project 4 (epidemiological studies of dietary botanical supplements)

R42 AG021844-01 Anil K. Sahai(PI) 5% 03/01/04 – 12/31/04
 NIH (NIA-Small Business Technology Transfer Program) \$133,495
 Medication Dispenser MD.2: Improving Health Outcome
 The objective of this STTR Phase I is to establish the feasibility of the research protocol for a Phase III clinical trial (Phase II of this STTR Fast Track Application) to quantify the benefits of using the MD.2 medication dispenser on health outcomes. The specific aims are to (1) develop data collection procedures that provide valid and comprehensive data to describe study subjects and their health services utilization, (2) randomize 24 patients to receive or not receive the MD.2 medication dispenser for 3 months and measure outcomes and (3) determine that the research protocol is acceptable to homecare staff/case management staff in the study sites.
 Role: Co-investigator (responsible for the randomization and statistical analyses)

RO1-CA1045-25-01 5% 09/30/03-8/31/08
 Susan Lutgendorf (PI) \$269,284 (yr 1)
 NIH

Biobehavioral-Cytokine Interactions in Ovarian Cancer

This is a longitudinal prospective study examining relationships between social support, depression, angiogenic cytokines in peripheral blood and ascites and disease free interval in ovarian cancer patients.

Role: Biostatistician

RO1-EY017066-01 5% 09/15/05-8/31/08
\$986,883

Michael Abramoff (PI)

NIH

Low-Cost, Portable, Computer-Assisted Imaging of Diabetic Retinopathy

Role: Biostatistician

2P01 HL0 46925-14 9% 07/1/06-6/30/12
\$14,595,824

John Widness (PI)

NIH

Neonatal Anemia: Pathophysiology and Treatment.

Role: Co-investigator/Biostatistician

R01 NR010405-01 7% 07/1/07-6/30/09
\$100,000

Barbara Rakel (PI)

NIH

Effect of TENS on Knee Osteoarthritis Pain, Hyperalgesia, and Function.

Role: Biostatistician

R01 NR0005269-05A 10% 08/1/07-07/31/10
\$3,296,734

Ann Marie McCarthy (PI)

NIH

Predicting Children's Response to Distraction from Pain: Tailored Interventions.

Role: Biostatistician

R21 AI068111-02 3% 09/1/07-08/31/09
\$395,650

Audrey Saftlas (PI)

NIH

Impact of LEEP on Cervical Length and Secretions

Role: Biostatistician

UL1 RR024979-01 50% 09/17/07-05/31/12
\$20,123,882

Gary Rosenthal (PI)

NIH

Institute for Clinical and Translational Science

Role: Biostatistician

R01 CA129022-01 2% 02/1/08-02/1/10
\$20,123,882

Geoffrey McLennan (PI)

NIH
Precise Correspondence of 3D Pathology with Radiologic Features in Lung Nodules
Role: Biostatistician

R01 CA140933-01 4.5% 07/1/09-05/31/13
Susan Lutgendorf (PI) \$466,763
NIH
Biobehavioral Influences and the Ovarian Tumor Microenvironment
Role: Biostatistician

R01 AR059115-01 5% 04/1/10-03/31/15
Christopher Adams (PI) \$1,125,000
NIH
Molecular Pathogenesis of Skeletal Muscle Atrophy
Role: Biostatistician

R01 NS055903-03 5% 8/7/11-2/29/13
Peggy Nopoulos (PI) \$107,188
NIH
Brain Structure and Function in Children at Risk for
Huntington's Disease
Role: Biostatistician

UH2 AT007784-01 5% 9/30/12-8/31/13
Gary Rosenthal (PI) \$543,997
NIH
Nighthtime Dosing of Anti-Hypertensive Medication:
A Pragmatic Clinical Trial
Role: Biostatistician

2P01 HL0 46925-16 9% 07/1/012-6/30/17
John Widness (PI) \$22,459,920
NIH
Neonatal Anemia: Pathophysiology and Treatment.
Role: Co-investigator/Biostatistician

1 R34 AT008349 Barbara Rakel (PI) 9/1/14-6/30/16
NIH
Preventing Persistent Post-Surgical Pain & Opioid Use in Veterans: Effect of ACT
Role: Biostatistician

1 U54 TR0013564 Gary Rosenthal (Contact PI) 8/14/15-7/31/17
NIH
The University of Iowa Clinical and Translational Science Award

Role: Co-Investigator

5 R01 HL 119882 Helena Laroche (PI) 8/1/14-6/30/19
NIH
Family Obesity Intervention: Motivational Interviewing and Community Support
Role: Biostatistician

5 UM1 AR063381 Kathleen A. Sluka (PI) 7/1/13-6/30/18
NIH
Fybromyalgia Activity Study with TENS "FAST"
Role: Biostatistician

2 U54 NS053672 Kevin Campbell (PI) 6/8/05-6/30/20
NIH
Muscular Dystrophy Cooperative Research Center
Role: Biostatistician

1 R01 MH104363 David Wacker (PI) 4/1/15-3/31/19
NIH
Comparing Behavioral Assessments Using Telehealth for Children with Autism
Role: Co-Investigator

1 U01 DK108334 Aliye Uc (Contact PI) 9/28/15-8/31/20
NIH
INSPPIRE to Study Pediatric Chronic Pancreatitis
Role: Co-Investigator

R01 CA193249 Susan Lutgendorf (PI) 2/10/16-12/31/20
NIH
Behavioral Influences on Ovarian Cancer Progression: Role of Chemoresistance
Role: Co-Investigator

R25 HL131467 Gideon Zamba (PI) 2/15/16-1/31/19
NIH
Iowa Summer Institute for Research Education in Biostatistics
Role: Co-Investigator

D. Invited Presentations (least to most recent)

<u>Year</u>	<u>Title</u>	<u>Organization</u>
1987	Estimation of the common odds ratio (with KJ Koehler)	Statistical Laboratory Seminar Iowa State University
1987	Computational aspects and statistical applications of the transportation problem of linear programming	Statistical Laboratory Seminar Iowa State University

1990	Overview of fundamental concepts in design and analysis of experiments	Cardiovascular Center University of Iowa
1991	Sample size and power analysis	Clinical Epidemiology Seminar University of Iowa
1993	Use and interpretation of ANOVA for repeated measures studies	Cardiovascular Center University of Iowa
1997	Ask the Statisticians (Principles of Clinical Research)	Cardiovascular Center University of Iowa
2005	Evaluation of Statistical Consulting Programs in an Academic Setting (Discussant)	Joint Statistical Meetings (American Statistical Association)
2008	Teaching Statistics In The Consulting Environment: Experiences At The University Of Iowa Biostatistics Consulting Center)	Joint Statistical Meetings (American Statistical Association)
2010	Introduction to Basic Concepts in Statistics	Institute for Clinical and Translational Science at The University of Iowa
2010	How Many Subjects do I Need? – Issues to Consider in Sample Size Determination	Department of Community and Behavioral Health University of Iowa
2010	Issues to Consider in Sample Size Determination	College of Nursing University of Iowa

Conference Presentations/Posters (selected from 2000-2007)

<u>Year</u>	<u>Title</u>	<u>Organization</u>
2000	Obtaining mortality data using the national death index (Renquist KE, Mason EE, Neuhaus J, Zimmerman B)	American Society for Bariatric Surgery
2001	Dynamic MRI of the Pelvic Floor in Stress Urinary Incontinence: Technique, Normative Data in Continent Women, and Comparison with Physical Examination (Stolpen AH, Hodroff MA, Denson MA, Bolinger L, Zimmerman B, Brown B, Kreder K)	International Society for Magnetic Resonance in Medicine

2002	Age, BMI, and gender determine 30 day complications (Mason EE, Renquist KE, Zimmerman B)	American Society for Bariatric Surgery
2002	Effect of the Fetal Fibronectin Assay on Preterm Labor Management (Hansen H, Lowe MP, Zimmerman B)	Society for Maternal-Fetal Medicine
2002	Metoclopramide Concentration in Breast Milk of Women Delivering between 23-34 weeks Gestation (Hansen H, Hunter SI, McAndrew S, Harris K, Zimmerman B)	Society for Maternal-Fetal Medicine
2003	Fatigue, Depression, and Biomarkers in Women with Breast Cancer: A Pilot Study. (Piper B, Payne J, Rabinowitz I, Zimmerman MB)	Oncology Nursing Society
2004	Serum Carbamazepine Levels during Pregnancy and Post Partum (Abbasi G, Berg M, Van Dyke, Zimmerman B, Niebly J)	Society for Maternal-Fetal Medicine
2004	Folate levels during pregnancy and post partum (Abbasi G, Berg M, Van Dyke, Zimmerman B, Niebly J)	Society for Maternal-Fetal Medicine
2004	Folate levels during pregnancy and post partum (Abbasi G, Berg M, Van Dyke, Zimmerman B, Niebly J)	Society for Maternal-Fetal Medicine
2004	Influential factors for mortality rates after obesity surgery (Mason EE, Zhang W, Renquist KE, Zimmerman B)	American Society for Bariatric Surgery
2005	Comparison of Pentacam and Orbscan IIz on Posterior Curvature Topography Measurements in Keratoconus Eyes (Quisling S, Siioberg S, Zimmerman B, Goins K, Sutphin J)	Society of Pediatric Nurses Convention
2005	Association between Valsalva and Cough Leak Point Pressure with Pelvic Organ Prolapse in Female Stress Incontinence (Latini J, Zimmerman MB, Kreder K)	International Continence Society
2005	Fetal Ovine Erythrocyte Zinc Protoporphyrin(ZnPP) as a Developmental Model for Humans (Belsare GN, Schmidt RL, Zimmerman MB, Sear JL, Widness JA)	National Student Forum
2005	Obesity Prevalence Increasing Three Times Faster in High than Low Income Groups: National Health and Nutrition	AHA Annual Conference on Cardiovascular Disease Epidemiology and Prevention

	Examination Surveys, 1971 to 2002 (Maheshwari N, Robinson JG, Kohatsu N, Zimmerman B)	
2005	Randomized controlled trial of long term outcome of biofeedback therapy(BT) for dyssynergic defecation (Rao S, Kinkade K, Miller MJ, Brown CK, Stumbo P, Zimmerman B, Schulze C)	American College of Gastroenterology
2006	Normal Values and the Impact of a Painful Procedure On Salivary Cortisol Levels in Children (Kleiber C, McCarthy AM, Hanrahan K, Lutgendorf S, Tsalikian E, Zimmerman B)	Midwest Nursing Research Society
2006	Bariatric surgery trends: an 18-year report from the International Bariatric Surgery Registry (Samuel I, Mason EE, Renquist K, Huang YH, Zimmerman MB, Jamal M)	Association of VA Surgeons
2006	Diagnosis and Prognosis of Glioblastoma Multiforme Utilizing MCM7 and Ki-67 as Tumor Proliferation Markers (Sinnwel MSI, Luo P, Zimmerman MB)	UICC World Cancer Congress
2007	Parent Distraction During a Peripheral IV Insertion: Cortisol Responsivity and Predictors of Child Distress (McCarthy AM, Hanrahan K, Kleiber C, Zimmerman B)	Society of Pediatric Nurses Convention
2007	Dermatological Problems With Prosthetic Roll-On Liners (Hall MJ, Shurr DG, VanBeek MJ, Zimmerman MB)	American Academy of Orthotists and Prosthetists
2007	Self-medication with herbal therapies: relation to mental illness in American adults (Wallace RB, Zimmerman MB, Ravven S, Gryzlak BM, Nisly NL)	Preventive Medicine
2007	Vaginal Descent and Pelvic Floor Symptoms in Postmenopausal Women: A Longitudinal Study (Bradley CS, Zimmerman MN, Wang Q, Nygaard IE)	American Urogynecologic Society

IV. SERVICE

A. Offices/appointments held in professional organizations (least to most recent)

1. *Editorships*

<u>Year</u>	<u>Publication</u>
2001-2005	Gynecologic and Obstetric Investigations Associate Editor (statistical reviewer)

2. *Departmental, Collegiate or University Service Positions*

<u>Year</u>	<u>Position</u>
2004-2009	Faculty Council (CPH)
2011-2013	

3. *Professional Organization (state and/or national)*

<u>Year</u>	<u>Organization</u>	<u>Position</u>
	American Statistical Association	Member

B. Other Professional Service (Use only those headings that apply to you)

1. *Referee Manuscripts*

<u>Year</u>	<u>Title</u>
2000-01	Annals of Otolaryngology, Rhinology, and Laryngology
2004	Clinical Orthopaedics and Related Research
2005	Clinical Orthopaedics and Related Research Preventive Medicine
2006	Arteriosclerosis, Thrombosis, and Vascular Biology European Journal Clinical Microbiology & Infectious Diseases Circulation
2007	Arteriosclerosis, Thrombosis, and Vascular Biology Circulation Investigative Ophthalmology and Visual Science

2. *Departmental, Collegiate or University Committees (other than teaching)*

<u>Year</u>	<u>Title</u>
2004-06	Dept Biostatistics Admission Committee
2004	Barnes Award in Biostatistics Committee
2005-06	UI Campus Climate-Working at Iowa Survey Group
2007-08	College of Public Health Dean Search Committee
2007-08	Dept Biostatistics Search Committee
2008-10	UI Working at Iowa Survey Group