

**UNIVERSITY OF IOWA  
COLLEGE OF PUBLIC HEALTH CURRICULUM VITAE**

**Miriam Bridget Zimmerman**  
October 1, 2021

**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
Associate Director of the ICTS Biostatistics Core	2009-2017	Institute for Clinical and Translational Science at The University of Iowa
Professor (Clinical)	2008-present	Department of Biostatistics, University of Iowa College of Public Health

**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*)

<u>Semester, Year</u>	<u>Course Title/ Number</u>	<u>Semester Hours</u>	<u># Students</u>	<u>Role</u>	<u>Percent 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%
Spring 2019	BIOS:6610 Statistical Methods in Clinical Trials	3 s.h.	4	Instructor	100%
Spring 2020	BIOS:6610 Statistical Methods in Clinical Trials	3 s.h.	17	Instructor	50%

**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

**C. Other Advising/Mentoring**

**Clinical Teaching (precepting, teaching rounds, etc.)**

From 1990-current, have supervised and trained 50+ Graduate Research Assistants that have been appointed to the Biostatistics Consulting Center in biostatistical collaboration.

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 MS preceptorship projects

Served as Committed member for MPH student practicum

Mentored junior faculty in the practice of providing professional biostatistical consulting

Yearly guest lecture on sample size and conducted sample size workshop for EPID:6100 Writing a Research Protocol

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

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

Yearly guest lecture on sample size and review student proposal on sample size for EPID:6100 Writing a Research Protocol (continuing- most recent Oct 2021)

#### **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. Laryngoscope 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 allogeneic 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
84. Voigt MD, **Zimmerman B**, Katz DA, Rayhill SC. New National Liver Transplant Allocation Policy: Is the Regional Review Board process fair? Liver Transplantation 10(5):666-674, 2004. PMID: 15108259
85. Lichtor JL, Lane BS, **Zimmerman MB**. Residual sleepiness after N2O sedation: a randomized control trial. BMC Anesthesiology 4(1):5, 2004. PMID: 15140266
86. Knecht S, Estin M, Callaghan JJ, **Zimmerman MB**, Alliman KJ, Alvine FG, Saltzman CL. The agility total ankle arthroplasty - Seven to sixteen-year follow-up. Journal of Bone & Joint Surgery - American Vol. 86A(6):1161-1171, 2004. PMID: 15173288
87. Costello F, **Zimmerman MB**, Podhajsky PA, Hayreh SS. Role of thrombocytosis in diagnosis of giant cell arteritis and differentiation of arteritic from non-arteritic anterior ischemic optic neuropathy. European Journal of Ophthalmology. 14(3):245-257, 2004. PMID: 15206651
88. Tobacman JK, Kissinger P, Wells M, Prokuski J, Hoyer M, McPherson P, Wheeler J, Kron-Chalupa J, Parsons C, Weller P, **Zimmerman B**. Implementation of personal health records by case managers in a VAMC general medicine clinic. Patient Education & Counseling. 54(1):27-33, 2004. PMID: 15210257
89. Lutgendorf SK, Latini JM, Rothrock N, **Zimmerman MB**, Kreder KJ Jr. Autonomic response to stress in interstitial cystitis. Journal of Urology 172(1):227-231, 2004. PMID: 15201780
90. Hall M, Shurr DG, **Zimmerman MB**, Saltzman CL. Plantar foot surface temperatures with use of insoles. Iowa Orthopaedic Journal 24:72-75, 2004. PMID: 15296210
91. Rao SS, Mudipalli RS, Stessman M, **Zimmerman B**. Investigation of the utility of colorectal function tests and Rome II criteria in dyssynergic defecation (Anismus). Neurogastroenterol Motility 16(5):589-96, 2004. PMID: 15500515
92. Saltzman CL, **Zimmerman MB**, Holdsworth RL, Beck S, Hartsell HD, Frantz RA. Effect of initial weight-bearing in a total contact cast on healing of diabetic foot ulcers. Journal of Bone and Joint Surgery 86A(12):2714-2719, 2004. PMID: 15590858

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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
4. Clinical trials

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

Grant # PI	Source	Title	Period of Funding
2P01HL14388-26	Francois M. Abboud (PI)	NIH Integrative Neurobiology of Cardiovascular Regulation - PPG Role: Biostatistician in Biostatistics Core	3/08/98-12/31/02
1R01NR04886-01A1	Martin, Rene (PI)	NIH Lay CHD Representations and Women's Self-Referral for MI Role: Statistical Consultant	4/1/00-3/31/03
R01 HD39000	M. Kathleen Clark (PI)	NICHD Depo-provera and bone density in premenopausal women	02/01/00-01/31/04

Role: Statistical Consultant

2M01 RR00059 Robillard, Jean (PI) 03/01/03 – 02/28/08  
NIH

General Clinical Research Center for the University of Iowa.  
Role: Biostatistician

1 P01 ES1 2020-01 Birt, Diane F. (PI) 07/01/02 – 06/30/07  
NIH

Center for Research on Botanical Dietary Supplements  
Role: Biostatistician for Project 4 (epidemiological studies of dietary botanical supplements)

R42 AG021844-01 Anil K. Sahai(PI) 03/01/04 – 12/31/04  
NIH (NIA-Small Business Technology

Transfer Program)

Medication Dispenser MD.2: Improving Health Outcome

Role: Co-investigator (responsible for the randomization and statistical analyses)

RO1-CA1045-25-01 09/30/03-8/31/08  
Susan Lutgendorf (PI)

NIH

Biobehavioral-Cytokine Interactions in Ovarian Cancer

Role: Biostatistician

RO1-EY017066-01 09/15/05-8/31/08  
Michael Abramoff (PI)

NIH

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

Role: Biostatistician

2P01 HL0 46925-14 07/1/06-6/30/12  
John Widness (PI)

NIH

Neonatal Anemia: Pathophysiology and Treatment.

Role: Co-investigator/Biostatistician

R01 NR010405-01 07/1/07-6/30/09  
Barbara Rakel (PI)

NIH

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

Role: Biostatistician

R01 NR0005269-05A 08/1/07-07/31/10  
Ann Marie McCarthy (PI)

NIH

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

Role: Biostatistician



R21 AI068111-02 Audrey Saftlas (PI) NIH Impact of LEEP on Cervical Length and Secretions Role: Biostatistician	09/1/07-08/31/09
UL1 RR024979-01 Gary Rosenthal (PI) NIH Institute for Clinical and Translational Science Role: Biostatistician	09/17/07-05/31/12
R01 CA129022-01 Geoffrey McLennan (PI) NIH Precise Correspondence of 3D Pathology with Radiologic Features in Lung Nodules Role: Biostatistician	02/1/08-02/1/10
R01 CA140933-01 Susan Lutgendorf (PI) NIH Biobehavioral Influences and the Ovarian Tumor Microenvironment Role: Biostatistician	07/1/09-05/31/13 \$466,763
R01 AR059115-01 Christopher Adams (PI) NIH Molecular Pathogenesis of Skeletal Muscle Atrophy Role: Biostatistician	04/1/10-03/31/15
R01 NS055903-03 Peggy Nopoulos (PI) NIH Brain Structure and Function in Children at Risk for Huntington's Disease Role: Biostatistician	8/7/11-2/29/13
UH2 AT007784-01 Gary Rosenthal (PI) NIH Nighthtime Dosing of Anti-Hypertensive Medication: A Pragmatic Clinical Trial Role: Biostatistician	9/30/12-8/31/13
2P01 HL0 46925-16 John Widness (PI)	07/1/012-6/30/17

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  
Fibromyalgia Activity Study with TENS "FAST"  
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) 9/28/15-8/31/19  
NIH  
INSPPIRE to Study Pediatric Chronic Pancreatitis  
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

R01 CA193249 Susan Lutgendorf (PI) 2/10/16-12/31/21  
NIH  
Behavioral Influences on Ovarian Cancer Progression: Role of Chemoresistance  
Role: Co-Investigator

2 U54 NS053672 Kevin Campbell (PI) 6/8/05-6/30/25  
NIH  
Muscular Dystrophy Cooperative Research Center  
Role: Biostatistician

UL1 TR002537 Patricia Winokur (PI) 3/30/18-2/28/23

NIH  
The University of Iowa Clinical and Translational Science Award  
Role: Biostatistician

R01 NR017610 Barbara Rakel (PI) 2/8/19-11/20/23  
NIH  
Preventing Persistent Post-Surgical Pain and Dysfunction in At-Risk Veterans:  
Effect of a Brief Behavioral Intervention  
Role: Co-Investigator

R26 HL147231 Gideon Zamba (PI) 3/1/19-2/28/22  
NIH  
Iowa Summer Institute for Research Education in Biostatistics (ISIREB)  
Role: Co-Investigator

IPA 580D05152 MB Zimmerman (PI) 2/1/19-10/30/21  
U.S. Department of Veterans Affairs/Michael E. DeBakey  
VA Medical Center  
VA-IPA for MB Zimmerman (Provide statistical support for VA study “One-Day Life Skills  
Workshop for Veterans With TBI, Pain, And Psychopathology: Evaluating Efficacy and  
Mechanism of Change”)

UB3 AR076387 Kathleen Sluka (PI) 9/26/19-8/31/23  
NIH  
Fibromyalgia TENS in Physical Therapy Study (TIPS): An Embedded Pragmatic Clinical Trial  
Role: Co-Investigator

R01 CA246540 Susan Lutgendorf (PI) 2/1/20-1/30/25  
NIH  
Living Well: A Web-based Intervention to Improve Quality of Life in Rural and Urban Ovarian  
Cancer Survivors  
Role: Co-Investigator

PA-18-276 PO#7000001192 MB Zimmerman (PI) 8/1/20-7/31/22  
Baylor College of Medicine  
Targeting HIV Retention and Improved Viral load through Engagement (THRIVE)  
Role: Contact PI/Biostatistician

R56 AG063820 Vitor Lira (PI) 7/1/20-6/30/21  
NIH  
Molecular regulation of protein turnover in skeletal muscle  
Role: Co-Investigator

R01 HL153095 Kara Whitaker (PI) 9/15/20-8/31/25  
NIH  
Sedentary Behavior, Physical Activity, Sleep, and Cardiovascular Risk in Pregnancy: The  
Pregnancy 24/7 Cohort Study  
Role: Co-Investigator

R01 AR077418 Kathleen Sluka (PI) 9/1/20-8/31/25  
NIH

Metabolic Biomarkers for Fibromyalgia  
 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

**IV. SERVICE**

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

1.	<i>Editorships</i>	
	<u>Year</u>	<u>Publication</u>

- |           |   |
|-----------|---|
| 2001-2005 | Gynecologic and Obstetric Investigations<br>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<br>Preventive Medicine   |
| 2006             | Arteriosclerosis, Thrombosis, and Vascular Biology<br>European Journal Clinical Microbiology & Infectious Diseases<br>Circulation |
| 2007             | Arteriosclerosis, Thrombosis, and Vascular Biology<br>Circulation<br>Investigative Ophthalmology and Visual Science               |
| 2019-<br>present | JAMA Network Open   |
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   |
| 2018        | CCG Clinical Faculty Promotion  |
| 2021        | Departmental Promotion and Tenure Internal Peer Evaluation<br>Committee |

3. *Other*

<u>Year</u>	<u>Title</u>
2018-present	NIAMS appointed DSMB for “Multi-site Randomized Clinical Trial of FIT Teens for Juvenile Fibromyalgia” of the Cincinnati Children’s Hospital and Medical Center
Sep-Dec 2021	Merit reviewer - PCORI, 2021 Cycle 2 Urinary Incontinence Review Panel
Feb-Apr 2022	Merit reviewer - PCORI 21C3 Migraine Prevention and Osteoporotic Fractures Prevention Review Panel
May-July 2022	Merit reviewer - PCORI 22C1 Communication and Dissemination Research and Improving Healthcare Systems Review Panel