

Curriculum Vitae

Gilbert W. Fellingham, Ph.D.

Personal Information

Marital Status:

Married to Paula Noble; eight children

Education:

Occidental College, B.A., Mathematics, 1971

Brigham Young University, M.S., Physical Education, 1976

Brigham Young University, M.S., Statistics, 1977

University of Washington, M.S., Biostatistics, 1988

University of Washington, Ph.D., Biostatistics, 1990

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Department of Statistics

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Professional Experience

Brigham Young University, Provo, UT, Department of Statistics, 1990-present

Assistant Professor, 1990-1996

Associate Professor, 1996-2001

Professor, 2001-present

Graduate Coordinator, 1997-2003, 2013-2017

Associate Chair, 2000-2003, 2013-2017

The Boeing Corporation, Seattle, WA 1989-1990

Department of Epidemiology, Biostatistician

University of Washington/Veteran's Administration Medical Center, Seattle, WA 1987-1989
Metabolic and Cardiac Effects of Exercise in the Elderly Program Project (NIH funded),
Biostatistician

Battelle Marine Research Laboratory, Sequim, WA 1980-1986
Statistical Consultant

Sequim School District, Sequim High School, Sequim, WA 1977-1986
Math Teacher and Coach

Brigham Young University, Provo, UT 1975-1977
Assistant Director, Human Performance Research Center

Glendale Unified School District, Crescenta Valley High School, Glendale, CA 1972-1975
Math Teacher and Coach

Current Research Interests

Applications of parametric and nonparametric Bayesian models to health, sports, and human performance.

Publications

117. Vehrs, PR, Reynolds, S, Allen, J, Barrett, R, Burbank, T, Lacey, R, Nielsen, J, and Fellingham, GW., "Measuring Arterial Occlusion Pressure Using Pulse Wave and Continuous Wave Doppler Ultrasound and 2 Methods of Cuff Inflation", accepted for publication *Journal of Sport Rehabilitation*, 2025.
116. Hawkins, N. , G. W. Fellingham, G.L.. Page, "Point-by-point Volleyball Win Probability Model", *The American Statistician*, 79(3), pp 345-354, 2025.
115. Montieiro, A. M. Heiner, G. Fellingham, L. Lamas, "Play as practice? Comparative analysis of preparation period and match adjustments in a basketball team's performance", *it Plos ONE* 19(10):e0312678, 2024.
114. Needs, D., Blotter, J., Fellingham, G., Cruse, G., Gifford, J.R., Johnson, A. W., Feland, J.B. "Antihistamine Medication Blunts Localized Vibration Induced Increases in Popliteal Blood Flow", doi: 10.3390/vibration7020017 , *Vibration* 7(2), pp 351-361, 2024

113. Vehrs, PR, Reynolds, S, Allen, J, Barrett, R, Blazzard, C, Burbank, T, Hart, H, Kasper, N, Lacey, R, Lopez, D, and Fellingham, GW. "Measurements of arterial occlusion pressure using hand-held devices", *J Stength Cond Res*, 38(5), 2024.
112. Lamas, L., M.J. Heiner, Ferreira, M., Moura, A., Rangel, W., Fellingham, G., Lage, V. "No-gi Brazilian Jiu-Jitsu: a Markovian analysis of elite level combat dynamics", accepted for publication, *International Journal of Sports Science & Coaching*, 2023.
111. Needs, D., J. Blotter, M. Cowab, G. Fellingham, A. W. Johnson, J.B. Feland, "Effect of Localized Vibration on Popliteal Blood Flow", *Journal of Clinical Medicine*, 12, 2047. <https://doi.org/10.3390/>, 2023.
110. Vehrs, P.R., N. D. Tafuna'i, and, G. W. Fellingham, "Bayesian Analysis of the HR-VO2 Relationship During Cycling and Running in Males and Females", *International Journal of Environmental Research and Public Health*, 19, 16914, <https://doi.org/10.3390/ijerph192416914>, 2022.
109. Senatore, J.V., Lamas, L. and G. Fellingham, "Efficiency and productivity evaluation of basketball players' performance", *Motriz, Rio Claro*, (28), e10220004922, DOI: <http://dx.doi.org/10.1590/s1980-657420220004922>, 2022.
108. Vehrs, P. R., G. W. Fellingham, A. McAferty, L. Kelsey, "Trends in BMI Percentile and Body Fat Percentage in Children 12 to 17 Years of Age", *Children*, 9(5), pp. 744, 2022.
107. Fellingham, G. W., "Evaluating performance of elite level volleyball players", *Journal of Quantitative Analysis in Sport*, 18(1), pp. 15-34, 2022.
106. Rangel, W., G. Fellingham, and L. Lamas, "Integrated evaluation of team strategy, training practices and game performance of a basketball team", *International Journal of Sports Science & Coaching*, DOI: 10.1177/17479541221076621, 1-10, 2022.
105. Tafuna'i, N., I. Hunter, A.W. Johnson, G.W. Fellingham, P.R. Vehrs, "Differences in femoral artery occlusion pressure between sexes and dominant and non-dominant legs", *Medicina*, 57(9), pp. 863, <https://doi.org/10.3390/medicina57090863>, 2021.
104. Deru, L., B. Bikman, L. Davidson, L. Tucker, G. Fellingham, B. Bailey, "The Effects of Exercise on Beta-Hydroxybutyrate Concentrations Over a 36-Hour Fast: A Randomized Crossover Study", *Medicine and Science in Sports and Exercise*, 53(9):1987-98, doi: 10.1249/MSS.0000000000002655, 2021.
103. Lamas, L., J. V. Lima, G. Fellingham, "Two Steps for Scoring a Point: Creating and Converting Opportunities in Invasion Team Sports", *PLoS ONE* , 15(10): e0240419. <https://doi.org/10.1371/journal.pone.0240419>, 2020.

102. Mortensen, B.B., U. H. Mitchell, A. W. Johnson, G.W. Fellingham, J. B. Feland, J.W. Myrer, “Preseason screen cannot predict injury over three years of college football”, *Medicine and Science in Sports and Exercise*, 52(11), pp. 2286-2292, 2020 .
101. Kitamura, K., H. Roschel, I. Lorurco, L. Lamas, V. Tricoli, J. Vicente, G. Fellingham, C. Ugrinowitsch. “Strength and power training improves skill performance in volleyball players”, *Motriz, Rio Claro, Journal of Physical Education*, Epub June 05, ISSN 1980-6574. <http://dx.doi.org/10.1590/s1980-65742020000110200034>, 2020.
100. Feland, J. B., J. Hurst, G. W. Fellingham, and P. R. Vehrs, “Effects of Boil-and-Bite and Custom-fit Mouthguards on Cardiorespiratory Responses to Aerobic Exercise”, *Journal of Sports Medicine and Physical Fitness*, 60(12), pp.1513-1519, 2020.
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95. Woodfield, D. N. , and G. W. Fellingham, “Quantifying the probability of a shot in women’s collegiate soccer through absorbing Markov chains”. *Journal of Quantitative Analysis in Sports*, 14(3), 103-115, 2018.
94. Fellingham, G. W., and J. .D. Fisher.. “Predicting Home Run Performance in Major League Baseball Using a Bayesian Semiparametric Model”, *The American Statistician*, 72(3), 253-264, 2018.
93. Cheever, K., J. W. Myrer, A. W. Johnson, and G. W. Fellingham. “ Understanding the complete pathophysiology of chronic mild to moderate neck pain: Implications for the inclusion of a comprehensive sensorimotor evaluation ”, *Journal of Back and Musculoskeletal Rehabilitatio*, Vol. 30 Issue 5, p991-997. DOI: 10.3233/BMR-169535, 2017

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60. Tolley, H. D., and G. W. Fellingham. "Combining Life Table Data." *Encyclopedia of Actuarial Science*, John Wiley & Sons, Ltd., New York, 2004.
59. Harrison, J. W., C. L. Blakemore, R. P. Richards, J. Oliver, C. Wilkinson, and G. W. Fellingham. "The effects of two instructional models — tactical and skill teaching — on skill development and game play, knowledge, self-efficacy, and student perceptions in volleyball." *The Physical Educator*, 61(4):186-199, 2004.

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10. Kahn, S.E., V.G. Larson, R.S. Schwartz, J.C. Beard, K.C. Cain, G.W. Fellingham, J.R. Stratton, M.D. Cerqueira, I.B. Abrass. "Exercise Training Delineates the Importance of B-Cell Dysfunction to the Glucose Intolerance of Human Aging," *Journal of Clinical Endocrinology Metabolism*, 74:1336-1342, 1992.
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8. Schwartz, R.S., W.P. Shuman, V.L. Bradbury, K.C. Cain, G.W. Fellingham, J.C. Beard, S.E. Kahn, J.R. Stratton, M.D. Cerqueira, and I.B. Abrass. "Body Fat Distribution of Healthy Young and Older Men," *Journal of Gerontology*, Volume 45, pp. M181 - M185, 1991.
7. Schwartz, R.S., W.P. Shuman, V. Larson, K.C. Cain, G.W. Fellingham, J.C. Beard, S.E. Kahn, J.R. Stratton, M.D. Cerqueira, and I.B. Abrass. "The Effect of Intensive Endurance Exercise Training on Body Fat Distribution in Young and Older Men," *Metabolism*, 40:545-551, 1991.
6. Shepard, T.H., M. Barr, G.W. Fellingham, M. Fujinafa, J. Fitzsimmons, and A. G. Fantel. "Organ Weight Standards for Organs from Human Fetuses," *Pediatric Pathology*, 4:513-522, 1988.
5. Hardy, J.T., C.W. Apts, E.A. Crecelius, and G.W. Fellingham. "The Sea Surface Microlayer: Fate and Residence Times of Atmospheric Metals," *Limno. Oceanogr.*, 30 (1):93-101, 1985.
4. Anderson, J.W., R.G. Riley, S.L. Kiesser, B.L. Thomas, and G.W. Fellingham. "National Weathering of Oil in Marine Sediments: Tissue Contamination and Growth of the Clam, *Protothaca staminea*," *Canadian Journal of Fisheries and Aquatic Sciences*, 40(Suppl.2):70-77, 1983.

3. Roesijadi, G., A.S. Drum, J.T. Thomas, and G.W. Fellingham. “Enhanced Mercury Tolerance in Marine Mussels and Relationships to Low Molecular Weight, Mercury-binding Proteins,” *Marine Pollution Bulletin*, 113:250-253, 1982.
2. Fellingham, G.W., E. Roundy, A.G. Fisher, and G.R. Bryce. “Caloric Cost of Walking and Running,” *Medicine and Science in Sports*, 10(2):132-136, 1978.
1. Fellingham, G.W., G.R. Bryce, and M.W. Carter. “The Latin Square Changeover Design in Physical Education Research,” *Research Quarterly*, 49(2):125-134, 1978.

Manuscripts in Review or Preparation

1. Fisher, J.D., C.H. Carlyle, and G.W. Fellingham, “The Playoff Effect: Detecting NBA Player Performance Shifts”, submitted to *Journal of Sports Analytics*, 2025.
2. Fellingham, G. W., Heiner, M. J., Jara, A. , and Page, G. L. “Bayesian inference using partially geometric stick-breaking processes”, in preparation, 2025.
3. Ward, T., G. Page, G. Fellingham, and A. Jara, “Using Shot Location Transitions to Learn Tennis Player Strategies”, submitted, *Journal of the Royal Statistical Society: Series A*, 2024.
4. Monteiro, A., W. Rangel dos Santos, M.J. Heiner, G. W. Fellingham, L. M. Lamas, “Assessment of strategic-tactical coherence between preparation and performance of a women’s basketball team: Preparation and performance coherence of a women’s basketball team”, submitted, *Kinesiology*, 2024.
5. Kurth, M., G. Fellingham, G. Page, “Predicting NHL matches using product partition models”, in preparation, 2025.
6. Nielson, G., G. Fellingham, G. Page, “Predicting elbow injuries in Major League Baseball pitchers”, in preparation, 2025.
7. Narcisi, M., G. Page, G. Fellingham, “Evaluating volleyball setters using product partition models and set location”, in preparation, 2025.
8. Grooms, J.T., Fellars, A., Page, G.L., Jara, A., Heiner, M., and Fellingham, G.W., “Modeling the Likelihood of Rally Lengths in Professional Tennis with Evaluation of Selected Player Profiles’, in preparation, 2025.
9. Cannon, A., J.D. Fisher, G.L Page, G.W. Fellingham, “Analyzing the effects of NBA head coaches”, submitted to *The Journal of Quantitative Analysis in Sports*, 2025.
10. Halverson, B., Heiner, M., Lamas, L., and Fellingham, G., “Hierarchical Absorbing Markov Chain Models for Pooling Sparse Combat Sequence Data”, in preparation, 2025.

Books in Preparation

1. Fellingham, G., and Baldwin, S. “Analyzing and Learning from Data: A Workbook and Practical Guide Using Bayesian Modeling”, in preparation. Anticipated completion Spring 2026.

Awards

Statistics Department, Excellence in Mentoring Award, 2024

Statistics Department, Heritage Fellow, 2007

Statistics Department, Teacher of the Year, 2005-06

Statistics Department, Teacher of the Year, 2003-04

Statistics Department, Teacher of the Year, 2001-02

College of Physical and Mathematical Sciences, Distinguished Citizenship Award, 2017

American Statistical Association, Chapter Service Recognition Award, 2011

Statistics in Sports Award, from the Section on Statistics in Sports, American Statistical Association, “For contributions to the statistics in sports community, with special recognition for applying innovative statistical solutions to real sports applications.” August, 2006.

Best Conference Paper Prize, Strategic Management Society, 22nd Annual International Conference, Paris, France, September, 2002.

Certificate of recognition from the National Athletic Trainers’ Association, “for his dedication and contributions to the profession of athletic training,” June, 1998.

Professional and Scholarly Societies

American Statistical Association

Treasurer, Utah Chapter - ASA, 1991-1993

First Vice-President, Utah Chapter - ASA, 2002

President, Utah Chapter - ASA, 2003

Past President, Utah Chapter - ASA, 2004

Chair Elect, Section on Statistics in Sports - ASA, 2008

Chair, Section on Statistics in Sports - ASA, 2009

Past Chair, Section on Statistics in Sports - ASA, 2010

Chair, Search Committee for Editor of *JQAS* - ASA 2010,2011

COS Rep., Section on Statistics in Sports - ASA, 2011

Editor-in-Chief, *JQAS*, 2023-current

Member, Committee on Publications, 2024-current

International Biometrics Society, Western North American Region

Program Chair, WNAR meetings, June 2005

Member, COPSS George W. Snedecor Award Committee, 2007-2008
International Society for Bayesian Analysis
Phi Kappa Phi National Honor Society Life Member, Inducted 1977
Sigma Xi, The Scientific Research Honor Society, Inducted 2025

University Service

Department of Statistics

Associate Chair, 2000-2003, 2013-2017
Graduate Coordinator, 1997-2003, 2013-2017
Member, Rank and Status Committee, 2004-2006, 2018-2019
Chair, Rank and Status Committee, 2006-2009
Chair, Search Committee, 2009-2018
Member, Search Committee, 2019-current
Chair, SIAS Organizing Committee, 2022-current

College of Physical and Mathematical Sciences

Member, Rank and Status Committee, 2005-2008

Brigham Young University

Member, University Athletic Advisory Committee, 2007-2013
Chair, University Athletic Advisory Committee, 2010-2012
Member, University Academic Review Council, 2021-current

Athletic Outreach

Brigham Young University

Assistant Coach, Men's Volleyball Team, 1995
Consultant, Men's Volleyball Team, 1992-2008
Consultant, Women's Volleyball Team, 2009-2016
Assistant Coach, Women's Volleyball Team, 2017-2021

United States National Men's Volleyball Team

Consultant, 2003-2004, 2013

Philadelphia Eagles, National Football League

Consultant, 2006-2007

United States National Women's Volleyball Team

Consultant, 2012