

JAMES S. HODGES

EDUCATION

Ph.D., Statistics, 1985, University of Minnesota, Twin Cities, Thesis title: “Methods for Assessing the Accuracy of Some Standard Approximations,” advisor: Seymour Geisser

M.A., Public Affairs, 1986, University of Minnesota, Twin Cities

B.Math., 1979, University of Waterloo, Waterloo, Ontario, Canada

PROFESSIONAL EXPERIENCE

2016-present – Full Professor (non-tenure track), Division of Biostatistics, School of Public Health, University of Minnesota, Minneapolis, Minnesota

2009-2019 – Faculty Statistician, Biostatistical Design & Analysis Center, Academic Health Center, University of Minnesota, Minneapolis, Minnesota

2007-2010 – Statistician, Minneapolis Heart Institute Foundation, Minneapolis, Minnesota

2006-2015 – Associate Professor (non-tenure track), Division of Biostatistics, School of Public Health, University of Minnesota, Minneapolis, Minnesota

2004-2008 – WOC Statistician, Center for Chronic Disease Outcomes Research, Minneapolis Veterans’ Affairs Medical Center, Minneapolis, Minnesota

1999-2003 – Associate Member, Graduate Faculty, Clinical Research Program, Division of Epidemiology, School of Public Health, University of Minnesota, Minneapolis, Minnesota

1996-2007 – Director, Biostatistics Core, Minnesota Oral Health Clinical Research Center, School of Dentistry, University of Minnesota

1996-present – Full Member, Graduate Faculty, Division of Biostatistics, School of Public Health, University of Minnesota, Minneapolis, Minnesota

1993-1996 – Associate Member, Graduate Faculty, Division of Biostatistics, School of Public Health, University of Minnesota, Minneapolis, Minnesota

1993-1996 – Senior Statistician, Community Programs for Clinical Research on AIDS (CPCRA)

1993-2006 – Senior Research Associate, Division of Biostatistics, School of Public Health, University of Minnesota, Minneapolis, Minnesota

1986-1988 – Research Associate, Point Reyes Bird Observatory, Stinson Beach, California

1986-1988 – Director, Combat Analysis Laboratory, RAND Corporation, Santa Monica, California

1985-1993 – Statistician, RAND Corporation, Santa Monica, California

1983-1984 – Governor’s Intern, Department of Finance, State of Minnesota, St. Paul, Minnesota

1983 – Consultant, Department of Economics, The RAND Corporation, Santa Monica, California

1982-1983 – Consultant, Statistical Clinic, University of Minnesota, Minneapolis, Minnesota

CONSULTING EXPERIENCE

2000 Summit Health Group, St. Paul, Minnesota

1998-2000 HealthPartners, Minneapolis, Minnesota

1998-1999 Milward Brown Interactive, Santa Clara, California

1996 Institute for Healthcare Quality, Minneapolis, Minnesota

1995-2004 Veterans Administration Medical Center, Minneapolis, Minnesota

1995, 1996, 2003 Hennepin County Medical Center, Minneapolis, Minnesota

1994 U.S. Environmental Protection Agency
1993-2003 RAND Corporation, Santa Monica, California
1993 U.S. Department of Energy
1990, 1992 A&N Technical Services, Santa Monica, California
1988, 1990, 1995 AT&T Bell Laboratories, Murray Hill, New Jersey

FELLOWSHIPS and AWARDS

Dick Wittink Award for the best paper published in *Quantitative Marketing and Economics*, 2019, for Kalayanam K, McAteer J, Marek J, Hodges J, Lin L, *QME* 2017.

School of Public Health, University of Minnesota, Excellence in Advising Award, 2016.

American Academy of Periodontology, Clinical Research Award, 2007.

Fellow of the American Statistical Association, 2003.

Finalist for the Paul Green Award, given by the *Journal of Marketing Research*, 1997, for Putler DS, Kalayanam K, Hodges JS, *JMR* 1996

University of Minnesota Graduate School Doctoral Dissertation Fellowship, 1984

University of Minnesota Graduate School Entrance Fellowship, 1981

GRANTS

As PI or co-PI:

- Director, Data & Coordinating Center (DCC) for the Clinical Registry of Dental Outcomes in Head and Neck Cancer Patients (OraRad) Study (sponsored by NIDCR, PIs: M. Brennan, R. Lalla).
- Director, Data & Coordinating Center (DCC) for the Obstetrics and Periodontal Therapy (OPT) Study (sponsored by NIDCR, PI: B. Michalowicz).
- “Bayesian Statistics in Science and Technology: Case Studies” (a workshop) National Science Foundation 1990, 1992, 1994; Nuclear Regulatory Commission 1990, 1994; Army Research Office 1990, 1992; National Institutes of Health 1992 (R. Kass, PI; C. Gatsonis, J. Hodges, N. Singpurwalla, Co-PI’s).

In other roles:

- Too numerous to be worth listing.

PROFESSIONAL ORGANIZATIONS

Biometric Society, Eastern North American Region, 1993-present

American Statistical Association, 1983-present

American/International Association for Dental Research, 1998-2006

Military Operations Research Society, 1990-1993

Institute for Mathematical Statistics, 1983-1997

PUBLICATIONS

Articles: Statistical Methods

1. Hodges JS. "Assessing the accuracy of normal approximations", *Journal of the American Statistical Association*, Vol. 82, 149-154, 1987.
2. Hodges JS. "Uncertainty, policy analysis, and statistics (with discussion)", *Statistical Science*, Vol. 2, 259-291, 1987.
3. Hodges JS. "Can/may Bayesians do pure tests of significance?" in *Bayesian and Likelihood Methods in Statistics and Econometrics: Essays in Honor of George A. Barnard*, edited by S Geisser, JS Hodges, SJ Press, and A Zellner. North-Holland/American Elsevier, New York, 1990.
4. Hodges JS. "Six (or so) things you can do with a bad model", *Operations Research*, Vol. 39, 355-365, 1991.
5. Hodges JS. "Who knows what alternative lurks in the hearts of significance tests? (with discussion)", *Bayesian Statistics 4*, eds. JO Berger, JM Bernardo, D V Lindley, AFM Smith, University Press, Valencia, Spain, 247-266, 1992.
6. Draper DC, Hodges JS, Mallows CL, Pregibon D, "Exchangeability and data analysis (with discussion)", *Journal of the Royal Statistical Society, Series A*, Vol. 156, 9-37, 1993.
7. Hodges JS. "Analytical use of data from Army training exercises: A case study of tactical reconnaissance", *Journal of the American Statistical Association*, Vol. 89, 444-451, 1994.
8. Hodges JS. "The effect of partial-ordering utilities on Bayesian design of sequential experiments", In *Bayesian Analysis in Statistics and Econometrics: Essays in Honor of Arnold Zellner*, eds. DA Berry, KM Chaloner, JK Geweke, New York: Wiley, 515-525, 1996.
9. Hodges JS. "Statistical practice as argumentation: A sketch of a theory of applied statistics", in *Modeling and Prediction Honoring Seymour Geisser*, eds. JC Lee, A Zellner, and WO Johnson, New York: Springer-Verlag, 19-45, 1996.
10. Putler DS, Kalyanam K, Hodges JS. "A Bayesian approach for estimating target market potential with limited information", *Journal of Marketing Research*, Vol. 33, 134-149, 1996.
11. Bjorling LE, Hodges JS. "Rule-based ranking schemes for antiretroviral trials", *Statistics in Medicine*, Vol. 16, 1175-1191, 1997.
12. Hodges JS, Kalyanam K, Putler DS. "Estimating the cells of a contingency table with limited information, for use in geodemographic marketing," in *Case Studies in Bayesian Statistics, Volume III*, eds. C Gatsonis, JS Hodges, RE Kass, RE McCulloch, P Rossi, and ND Singpurwalla, Springer-Verlag, 347-370, 1997.
13. Hodges JS. "Some algebra and geometry for hierarchical models, applied to diagnostics (with discussion)", *Journal of the Royal Statistical Society, Series B*, 60:497-536, 1998.
14. Carlin BP, Hodges JS. "Hierarchical proportional-hazards regression models for highly stratified data", *Biometrics*, 55:1162-1170, 1999.
15. Johnson B, Carlin BP, Hodges JS. "Cross-study hierarchical modeling of stratified clinical trial data." *J. Biopharmaceutical Statistics*, 9:617-640, 1999.
16. Sargent DJ, Hodges JS, Carlin BP. "Structured Markov Chain Monte Carlo", *J. of Computational and Graphical Statistics* 9:217-234, 2000.

17. Adams JL, Hammitt JK, Hodges JS. "Periodicity in the global mean temperature series?" In Morton SC, Rolph JE, eds., *Public Policy and Statistics: Case Studies from RAND*. New York: Springer-Verlag, 75-93, 2000.
18. Hodges JS, Sargent DJ. "Counting degrees of freedom in hierarchical and other richly-parameterised models." *Biometrika*, 88:367-379, 2001.
19. Liu J, Hodges JS. "Posterior bimodality in the balanced one-way random effects model." *J. Royal Stat. Soc., Ser. B*, 65:247-255, 2003.
20. Hodges JS, Carlin BP, Fan Q. "On the precision of the conditionally autoregressive prior in spatial models." *Biometrics*, 59:317-322, 2003.
21. Haran M, Hodges JS, Carlin BP. "Accelerating computation in Markov random fields for spatial data via structured MCMC." *J. Computational and Graphical Statistics*, 12:249-264, 2003.
22. Hodges JS. "Are Quality Assessment Methods Any Good?" *J. Evidence-Based Dental Practice*, 4:24-31, 2004.
23. Liu X, Wall M, Hodges JS. "Generalized spatial structural equation models." *Biostatistics*, 6:539-57, 2005.
24. Reich BJ, Hodges JS, Carlin BP, Reich AM. "A spatial analysis of basketball shot chart data". *Amer. Stat.*, 60:3-12, 2006.
25. Reich BJ, Hodges JS, Zadnik V. "Effects of residual smoothing on the posterior of the fixed effects in disease-mapping models". *Biometrics*, 62:1197-1206, 2006.
26. Hodges JS, Cui Y, Sargent DJ, Carlin BP. "Smoothing Balanced Single-Error-Term Analysis of Variance". *Technometrics*, 49:12-25, 2007.
27. Reich BJ, Hodges JS, Carlin BP. "Spatial analyses of periodontal data using conditionally autoregressive priors having two types of neighbor relationships." *J. Amer. Stat. Assn.*, 102:44-55, 2007.
28. Lu H, Hodges JS, Carlin BP. "Measuring the complexity of generalized linear hierarchical models". *Can. J. Stat.*, 35:69-87, 2007.
29. He Y, Hodges JS, Carlin BP. "Re-considering the variance parameterization in multiple precision models". *Bayesian Anal.*, 2:529- 556, 2007.
30. He Y, Hodges JS. "Point estimates for variance-structure parameters in Bayesian analysis of hierarchical models", *Comp. Stat. Data Anal.*, 52:2560-2577, 2008.
31. Reich BJ, Hodges JS. "Identification of the variance components in the general two-variance linear model", *J. Stat. Plan. Inf.*, 138:1592- 1604, 2008.
32. Reich BJ, Hodges JS. "Modeling longitudinal spatial periodontal data: A spatially adaptive model with tools for specifying priors and checking fit". *Biometrics*, 64:790-799, 2008.
33. Zhang Y, Hodges JS, Banerjee S. "Smoothed ANOVA with spatial effects as a competitor to MCAR in multivariate spatial smoothing", *Ann Applied Stat*, 3(4):1805-1830, 2009
34. Cui Y, Hodges JS, Kong X, Carlin BP. "Partitioning degrees of freedom in hierarchical and other richly-parameterized models." *Technometrics*, 52:124-136, 2010.
35. Hodges JS, Reich BJ. "Adding spatially correlated errors can mess up the fixed effect you love." *The American Statistician*, 64:325-334, 2010.

36. Ren Q, Banerjee S, Finley AO, Hodges JS. “Variational Bayesian methods for spatial data analysis”. *Comp. Stat. Data Analysis*, 55:3197-3217, 2011
37. Lavine ML, Hodges JS. “On rigorous specification of ICAR models”. *The American Statistician*, 66:42-49, 2012.
38. Henn L, Hodges JS. “Multiple Local Maxima in Restricted Likelihoods and Posterior Distributions for Mixed Linear Models.” *International Statistical Review*, 82:90-105, 2104.
39. Eberly LE, Hodges JS, Savik K, Gurvich O, Bliss DZ, Mueller C. “Extending the Peters-Belson approach for assessing disparities to right censored time-to-event outcomes.” *Statistics in Medicine*, 32: 4006-4020, 2013.
40. Hatfield LA, Hodges JS, Carlin BP. “Joint models: When are treatment estimates improved?” *Statistics and Its Interface*, 7:439-453, 2014.
41. Luo LY, Hodges JS. “Block Constraints in Age-Period-Cohort Models with Unequal-Width Intervals”, *Sociological Methods and Research*, vol. 45, 4: pp. 700–726, 2016.
42. Lavine M, Bray A, Hodges J. “Approximately exact calculations for linear mixed models.” *Elec J Stat*, 9:2293–2323, 2015.
43. Zhao H, Hodges JS, Ma H, Jiang Q, Carlin BP. “Hierarchical Bayesian approaches for detecting inconsistency in network meta-analysis.” *Stat in Med*, 35(20):3524-36, 2016.
44. Lin L, Chu H, Hodges JS. “Sensitivity to Excluding Treatments in Network Meta-Analysis.” *Epidemiology*, 27(4):562-9, 2016.
45. Lin L, Chu H, Hodges JS. “Alternative Measures of Between-Study Heterogeneity in Meta-Analysis: Reducing the Impact of Outlying Studies.” *Biometrics*, 73(1):156-166, 2017.
46. Luo LY, Hodges JS, Winship C, Power D. “The Sensitivity of the Intrinsic Estimator to Coding Schemes: A Comment on Yang, Schulhofer-Wohl, Fu, and Land.” *American Journal of Sociology*, 122(3), 930–961, 2016.
47. Martinez-Beneito MA, Hodges JS, Marí-Dell’Olmo M. “Smoothed ANOVA modeling”. In *Handbook of Spatial Epidemiology*, eds. Lawson AB, Banerjee S, Haining RP, Ugarte MD, Boca Raton FL:Chapman & Hall/CRC, 595–607, 2016.
48. Zhao H, Hodges JS, Carlin BP. “Diagnostics for Generalized Linear Hierarchical Models in Network Meta-analysis”, *Research Synthesis Methods*, 8(3):333-342, 2017.
49. Lin L, Zhang J, Chu H, Hodges JS. “Performing Arm-Based Network Meta-Analysis in R with the pnetmeta Package.” *J Stat Software*, 80(5), doi: 10.18637/jss.v080.i05, 2017.
50. Goicoa T, Adin A, Ugarte MD, Hodges JS. “In spatio-temporal disease mapping models, identifiability constraints affect PQL and INLA results.” *Stochastic Environmental Research and Risk Assessment*, 32(3), 749-770, 2018.
51. Bose M, Hodges JS, Banerjee S. “Toward a diagnostic toolkit for linear models with Gaussian-process distributed random effects.” *Biometrics*, 74(3):863-873. doi: 10.1111/biom.12848. PMID: 29441529, 2018
52. Lian Q, Hodges JS, MacLehose R, Chu H. “A Bayesian approach for correcting exposure misclassification in meta-analysis.” *Statistics in Medicine* Jan 15;38(1):115-130. doi: 10.1002/sim.7969. PMID: 30251263, 2019

53. Lian Q, Hodges JS, Chu H. "A Bayesian Hierarchical Summary Receiver Operating Characteristic Model for Network Meta-analysis of Diagnostic Tests." *J. American Statistical Assn.*, *J. Am. Stat. Assn.*, 114(527):949-961. DOI: 10.1080/01621459.2018.1476239, 2019.
54. Zhou J, Hodges JS, Suri MFK, Chu H. "A Bayesian Hierarchical Model Estimating CACE in Meta-analysis of Randomized Clinical Trials with Noncompliance." *Biometrics*, 75(3):978-987. doi: 10.1111/biom.13028. PMID: 30690716, 2019
55. Lavine M, Hodges J. "Intuition for an Old Curiosity and an Implication for MCMC." *The American Statistician*. Published online: 19 Feb 2019
56. Luo LY, Hodges JS. "The Age-Period-Cohort-Interaction Model for Describing and Investigating Inter-cohort Deviations and Intra-cohort Life-course Dynamics." *Sociological Methods & Research*, to appear. DOI: 10.1177/0049124119882451.
57. Luo LY, Hodges JS. "Constraints in random effects age-period-cohort models." *Sociological Methodology*, to appear. DOI: 10.1177/0081175020903348

Articles: Collaborative Papers

1. Baker DW, Jones R, Hodges JS, Massie BM, Konstam MA, Rose EA. "Management of heart failure: The role of revascularization in the treatment of patients with moderate or severe left ventricular dysfunction", *J. American Medical Assn.*, Vol. 292 (19), 1528-1535, 1994.
2. Saravolatz LD, Winslow DL, Collins G, Hodges JS, Pettinelli C, Stein DS, Markowitz N, Reves R, Loveless MO, Crane L, Thompson M, Abrams DI, and the Terry Beinr Community Programs for Clinical Research on AIDS. "A comparison of zidovudine alone or in combination with didanosine or zalcitabine in HIV- infected patients with AIDS or fewer than 200 CD4-positive cells per cubic millimeter", *New England J. Medicine*, Vol. 335, 1099-1106, 1996.
3. Hadorn DC, Baker D, Hodges JS, Hicks N. "Rating the quality of evidence for clinical practice guidelines," *Journal of Clinical Epidemiology*, Vol. 47, 749-754, 1996.
4. Pemberton HB, Wilkins HF, Hodges JS. "Growth relationships of individual flowers during late stages of floral development of rhododendron cvs. Prize and Gloria", *Canadian J. Botany*, 76:1350-1358, 1998.
5. Myers SL, Williams JM, Hodges JS. "Effects of extreme heat on teeth with implications for histologic processing." *J. Forensic Sciences*, 44:805-809, 1999.
6. Magne P, Kwon K-R, Belser UC, Hodges JS, Douglas WH. "Crack propensity of porcelain laminate veneers: a simulated operator evaluation." *Journal of Prosthetic Dentistry*, 81(3):327-334, 1999.
7. Cohn DL, Fisher EJ, Peng GT, Hodges JS, Chesnutt J, Child CC, Franchino B, Gibert CL, El-Sadr W, Hafner R, Korvick J, Ropka M, Heifets L, Clotfelter J, Munroe D, Horsburgh CR, for the Terry Beinr Community Programs for Clinical Research on AIDS. "A prospective randomized trial of four three-drug regimens in the treatment of disseminated *Mycobacterium avium* complex disease in AIDS patients: Excess mortality associated with high-dose clarithromycin." *Clinical Infectious Diseases*, 29:125-133, 1999.
8. Goldscheider F, Goldscheider C, St. Clair P, Hodges JS. "Changes in returning home in the US, 1925-1985", *Social Forces*, 78:695-720, 1999.
9. Lai JH, Hodges JS. "Effects of processing parameters on physical properties of the silicon maxillofacial prosthetic materials." *Dental Materials*, 15:450-455, 1999.

10. Nelson DB, Freeman ML, Silvis SE, Cass O, Yakshe PN, Vennes J, Stahnke LL, Herman M, Hodges JS. "A randomized, controlled trial of transcutaneous carbon dioxide monitoring during ERCP", *Gastrointestinal Endoscopy*, 51(3):288-295, 2000.
11. Tantbirojn D, Cheng Y-S, Versluis A, Hodges JS, Douglas WH. "Nominal shear or fracture mechanics in the assessment of composite-dentin adhesion?" *J. Dental Res.*, 79:41-48, 2000.
12. Michalowicz B, Pihlstrom BL, Hodges JS, Bouchard T Jr. "No heritability of temporomandibular joint signs and symptoms." *J Dental Research* 79:1573-1578, 2000.
13. Pesun IJ, Olson AK, Hodges JS, Anderson GC. "In vivo evaluation of the surface of posterior resin composite restorations: A pilot study." *J Prosth Dent*, 84:353-359, 2000.
14. Magne P, Perroud R, Hodges JS, Belser RC. "Clinical performance of novel design porcelain veneers for the recovery of coronal volume and length." *Int. J. of Periodontics and Restorative Dent.*, 20:441-457, 2000
15. Ta LE, Dionne RA, Friction JR, Hodges JS, Kajander KC. "SYM-2081, a kainate receptor antagonist, reduces allodynia and hyperalgesia in a freeze injury model of neuropathic pain." *Brain Research* 858:106-120, 2000.
16. Seong WJ, Koriath TWP, Hodges JS. "Experimentally-induced abutment strains in three types of single molar implant restorations." *J. Prosth Dent.*, 84:318-326, 2000.
17. Tran SD, Rudney JD, Sparks BS, Hodges JS. "Persistent presence of *Bacteroides forsythus* as a risk factor for clinical attachment level loss in a prospective longitudinal study of a population with low prevalence and severity of adult periodontitis." *J. Periodontology*, 72:1-10, 2001.
18. Sandler NA, Hodges JS, Sabino M'L. "Assessment of recovery in patients undergoing intravenous conscious sedation using bispectral analysis." *J Oral Maxillofac. Surg.*, 59:603-611, 2001.
19. Pesun IJ, Villar A, Hodges JS, DeLong R, Lai JH, Schneider D. "Non-destructive compliance testing of soft denture liners." *J. Prosth.*, Vol 10:91-96, 2001.
20. Pesun IJ, Brosky ME, Koriath TWP, Hodges JS, DeVoe BJ. "Operator-induced axial forces during implant gold screw fastening." *J. Prosth Dent.*, 86:15-19, 2001.
21. Ronderos M, Pihlstrom BL, Hodges JS. "Periodontal disease among indigenous people in the Amazon rain forest." *J. Clin. Perio.*, 28:995- 1003, 2001.
22. Peterson C, Simon M, Hodges J, Mertens P, Egelman E, Anderson D. "Composition and mass of the bacteriophage ϕ 29 prohead and virion." *J. Structural Biology*, 135:18-25, 2001.
23. DeLong R, Pintado MR, Ko CC, Hodges JS, Douglas WH. "Factors influencing optical 3D scanning of vinyl polysiloxane impression materials." *J. Prosthodontics*, 10:78-85, 2001.
24. Johanek LM, Heitmiller DR, Turner M, Nader N, Hodges J, Simone DA. "Cannabinoids attenuate capsaicin-evoked hyperalgesia through spinal and peripheral mechanisms." *Pain*, 93:303-315, 2001.
25. Abdelaziz [Bedier] KM, Hassan AM, Hodges JS. "Repair strength of the differently cured composite restorations." *Egyptian Dent. J.*, 47:875-882, 2001.
26. Brosky ME, Pesun IJ, Lowder PD, DeLong R, Hodges JS. "Laser digitization of casts to determine the effect of tray selection and cast formation technique on accuracy." *J. Prosth. Dent.*, 87:204-209, 2002.

27. Lai JH, Wang LL, Ko CC, DeLong RL, Hodges JS. "New Organosilicon Maxillofacial Prosthetic Materials." *Dental Materials*, 18:281-286, 2002.
28. Myers SL, Rhodus NL, Parsons HM, Hodges JS, Kaimal S. "A retrospective survey of oral lichenoid lesions: Revisiting the diagnostic process for oral lichen planus (OLP)." *Oral Surgery Oral Medicine Oral Pathology*, 93:676-681, 2002.
29. DeLong R, Ko C-C, Olson I, Hodges JS, Douglas WH. "Helical axis errors affect computer generated occlusal contacts." *J. Dental Research*, 81:338-343, 2002.
30. Stecker SS, Swift JQ, Hodges JS, Erickson PR. "Should a mucoadhesive patch (DentiPatch™) be used for gingival anesthesia in children?" *Anesthesia Progress*, 49:3-8, 2002.
31. Pesun IJ, Hodges JS, Lai JH. "Effect of polishing technique on the gap width between denture resin and permanent resilient denture liners." *J. Prosth. Dent.*, 87:311-318, 2002.
32. Costalonga M, Hodges JS, Herzberg MC. "Streptococcus sanguis modulates Type II collagen-induced arthritis in DBA/1J mice." *J. Immunology*, 169:2189-2195, 2002.
33. Stewart GP, Jain P, Hodges JS. "Shear bond strength of resin cements to both ceramic and dentin." *J Prosth. Dent.*, 88:277-284, 2002.
34. Abdelaziz [Bedier] KM, Combe EC, Hodges JS. "The effect of disinfectant additives on the properties of dental gypsum: 1. Mechanical properties." *J. Prosthodontics*, 11:161-167, 2002.
35. Abdelaziz [Bedier] KM, Combe EC, Hodges JS. "The effect of disinfectant additives on the properties of dental gypsum: 2. Surface properties." *J. Prosthodontics*, 11:234-240, 2002.
36. DeLong R, Ko CC, Anderson GC, Hodges JS, Douglas, WH. "Comparing maximum intercuspal contacts of virtual dental patients and mounted dental casts." *J. Prosth. Dent.*, 88:622-630, 2002.
37. Wille T, Pesun IJ, Combe EC, Lindquist GC, Hodges JS. "A clinical pilot study of the time dependent composition of tooth bleaching systems." *J. Oral Rehab.*, 30:1-5, 2003.
38. Brosky ME, Koriotoh TWP, Hodges J. "The anterior cantilever in the implant-supported screw-retained mandibular prosthesis." *J. Prosth. Dent.*, 89:244-249, 2003.
39. Tantbirojn D, Trom M, Hodges JS, Douglas WH. "Measurement of band displacement: A methodology to determine composite packability." *Quintessence Int.*, 34:761-765, 2003.
40. Turner MS, Hamamoto DT, Hodges JS, Maccicchini ML, Simone DA. "SYM 2081, an agonist that desensitizes kainate receptors, attenuates capsaicin- and inflammatory-evoked hyperalgesia." *Brain Research*, 973:252-264, 2003.
41. Villar A, Pesun IJ, Brosky ME, Hodges JS, DeLong R, Lai JH. "Clinical evaluation of resilient denture liners. Part 1: Compliance and color evaluation." *J Prosth.*, 12:82-89, 2003.
42. Brosky ME, Pesun IJ, Morrison B, Hodges JS, Lai JH, Liljemark W. "Clinical evaluation of resilient denture liners. Part 2: Candida count and speciation." *J. Prosth.*, 12:162-167, 2003.
43. Kurtz JS, Perdigao J, Geraldeli S, Hodges JS, Bowles WR. "Bond strengths of tooth-colored posts. Effect of sealer, dentin adhesive, and root region." *Am. J. Dent.*, 16:31A-36A, 2003.
44. Brosky ME, Keefer OA, Hodges JS, Pesun IJ, Cook G. "Patient Perceptions of Professionalism in Dentistry." *J. Dent. Ed.*, 67:909-915, 2003
45. Brosky ME, Major RJ, DeLong R, Hodges JS. "Evaluation of dental arch reproduction using three-dimensional optical digitization." *J. Prosthet. Dent.*, 90:434-440, 2003.

46. Murdoch M, Hodges JS, Hunt C, Cowper D, Kressin N, O'Brien N. "Gender differences in service connection for PTSD" *Med. Care.*, 41:950-961, 2003.
47. Ko CC, Douglas WH, DeLong R, Rohrer M, Swift J, Hodges JS, An K-N, Ritman EL. "Effects of implant healing time on cervical bone loss of a controlled-load dental implant." *J. Dent. Research*, 82:585-591, 2003.
48. Chang MC, Ko CC, Liu CC, Douglas WH, DeLong R, Seong W-J, Hodges JS, An K-N. "Elasticity of alveolar bone near dental implant-bone interfaces after one month's healing." *J. Biomechanics*, 36:1209-1214, 2003.
49. DeLong R, Heinzen M, Hodges JS, Ko C-C, Douglas WH. "Accuracy of a system for creating 3D computer models of dental arches." *J. Dent. Research*, 82:438-442, 2003.
50. Tsai CY, Wolff LF, Germaine G, Hodges JS. "A rapid DNA probe test compared to culture methods for identification of subgingival plaque bacteria." *J. Clin. Perio.*, 30:57-62, 2003.
51. Murdoch M, Hodges J, Cowper D, Fortier L, Van Ryn M. "Racial disparities in VA service-connection for post-traumatic stress disorder disability." *Medical Care*, 41:536-549, 2003.
52. Basi DL, Ross KF, Hodges JS, Herzberg MC. "The modulation of tissue factor by endothelial cells during heat shock", *J. Biol. Chem.*, 278:11065-11071, 2003.
53. Perdigão J, Geraldini S, Hodges JS. "Total etch vs. self-etch: Effect on post-operative sensitivity." *J. Amer. Dent. Assn.*, 134:1621- 1629, 2003.
54. Combe EC, Owen BA, Hodges JS. "A protocol for determining the surface free energy of dental materials." *Dental Materials*, 20:262-268, 2004.
55. Abdelaziz KM (Bedier), Hassan AM, Hodges JS. "Reproducibility of sterilized rubber impressions." *Brazilian Dental J.*, 15:209-213, 2004.
56. Perdigão J, Anauate-Netto C, Carmo ARP, Hodges J, Cordeiro HJD, Lewgoy HR, Dutra-Correa M, Castilhos N, Amore R. "The effect of adhesive and flowable composite on postoperative sensitivity: 2-week results." *Quintessence International*, 35:777-84, 2004.
57. Molloy J, Wolff LF, Lopez-Guzman A, Hodges JS. "The association of periodontal disease parameters with systemic medical conditions and tobacco use." *J. Clinical Periodontology*, 31:625-32, 2004.
58. Murdoch M, Polusny MA, Hodges JS, O'Brien N. "Prevalence of in-service and post-service sexual assault among combat and non-combat veterans applying for Department of Veterans Affairs (VA) posttraumatic stress disorder disability benefits." *Military Med.*, 169:392-5, 2004.
59. Murdoch M, Van Ryn M, Hodges J, Cowper D. "Mitigating effect of Department of Veterans Affairs (VA) disability benefits for PTSD on low income." *Military Med.*, 170:137-140, 2005.
60. Nachnani S, Majerus G, Lenton P, Hodges J, Magallanes E. "Effects of training on odor judges scoring intensity." *Oral Diseases*, 11 Suppl 1:40-4, 2005.
61. Murdoch M, Hodges J, Cowper D, Sayer N. "Regional variation and other correlates of Department of Veterans Affairs Disability Awards for patients with posttraumatic stress disorder." *Medical Care*, 43:112-21, 2005.
62. Knorr SD, Combe EC, Wolff LF, Hodges JS. "The surface free energy of gold-based materials." *Dental Materials*, 21:272-7, 2005.
63. Okunseri C, Hodges JS, Born D. "Self-reported toothache experience in an adult population in Benin City, Edo State, Nigeria." *Oral Health Prev Dent*, 3:119-25J, 2005.

64. Benting DG, Pesun IJ, Hodges J. "Compliance of resilient denture liners immersed in effervescent denture cleansers." *J. Prosthodont.* 14:175-83, 2005.
65. Abdelaziz KM (Bedier), Combe EC, Hodges JS. "The wetting of surface-treated silicone impression materials by gypsum mixes containing disinfectants and modifiers". *J. Prosthodontics*, 14:104-109, 2005.
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179. Berger MG, Majumder K, Hodges JS, Bellin MD, Schwarzenberg SJ, Gupta S, Dunn TB, Beilman GJ, Pruett TL, Freeman ML, Wilhelm JJ, Sutherland DE, Chinnakotla S. "Microbial contamination of transplant solutions during pancreatic islet autotransplants is not associated with clinical infection in a pediatric population". *Pancreatolgy*. 16(4):555-62. doi: 10.1016/j.pan.2016.03.019. Epub 2016 Apr 6. PMID: 27134135, 2016.

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181. Moana-Filho EJ, Alonso AA, Kapos FP, Leon-Salazar V, Durand SH, Hodges JS, Nixdorf DR. "Multifactorial Assessment of Measurement Errors Affecting Intraoral Quantitative Sensory Testing Reliability". *Scandinavian Journal of Pain*, 16:93-98, 2017.
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184. Opoka RO, Ndugwa CM, Latham TS, Lane A, Hume HA, Kasirye P, Hodges JS, Ware RE, John CC. "Novel use Of Hydroxyurea in an African Region with Malaria (NOHARM): a trial for children with sickle cell anemia." *Blood*, 130(24):2585-2593, 2017.
185. Jaramillo EG, Mupere E, Opoka RO, Hodges JS, Lund TC, Georgieff MK, John CC, Cusick SE. "Delaying the start of iron until 28 days after antimalarial treatment is associated with lower incidence of subsequent illness in children with malaria and iron deficiency." *PLoS One*, 12(8):e0183977. doi: 10.1371/journal.pone.0183977, 2017.
186. Bart G, Wyman Z, Wang Q, Hodges JS, Karim R, Bart BA. "Methadone and the QTc Interval: Paucity of Clinically Significant Factors in a Retrospective Cohort." *J Addict Med.*, 11(6):489-493, 2017.
187. Li D, Radulescu A, Shrestha RT, Root M, Karger AB, Killeen AA, Hodges JS, Fan SL, Ferguson A, Garg U, Sokoll LJ, Burmeister LA. "Association of Biotin Ingestion With Performance of Hormone and Nonhormone Assays in Healthy Adults." *J. American Medical Assn.*, 318(12):1150-1160, 2017.
188. Loavenbruck AJ, Hodges JS, Provitera V, Nolano M, Wendelshafer-Crabb G, Kennedy WR. "A device to measure secretion of individual sweat glands for diagnosis of peripheral neuropathy." *J Peripher Nerv Syst.*, 22(2):139-148, 2017.
189. Petryk A, Polgreen LE, Grames M, Lowe DA, Hodges JS, Karachunski P. "Feasibility and tolerability of whole-body, low-intensity vibration and its effects on muscle function and bone in patients with dystrophinopathies: a pilot study." *Muscle Nerve*, 55(6):875-883, 2017.
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191. Bellin MD, Prokhoda P, Hodges JS, Schwarzenberg SJ, Freeman ML, Dunn TB, Wilhelm JJ, Pruett TL, Kirchner VA, Beilman GJ, Chinnakotla S. "Age and Disease Duration Impact Outcomes of Total Pancreatectomy and Islet Autotransplant for PRSS1 Hereditary Pancreatitis." *Pancreas*, 47(4):466-470, doi: 10.1097/MPA.0000000000001028, PMID: 29517634, 2018.
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- Naziruddin B, Nyman JA, Pruett TL, Schwarzenberg SJ, Singh VK, Smith K, Steel JL, Wikstrom M, Witkowski P, Hodges JS; POST study consortium. "A multicenter study of total pancreatectomy with islet autotransplantation (TPIAT): POST (Prospective Observational Study of TPIAT)." *Pancreatology*, 18(3):286-290. doi: 10.1016/j.pan.2018.02.001. PMID: 29456124, 2018
193. Lane A, Hodges J, Ptacek P, Berry KL, Beilman GJ, Dunn TB, Preutt TL, Chinnakotla S, Kuzmak B, Bellin M. "Low prevalence of diabetes distress following total pancreatectomy with islet autotransplantation." *Clin Transplant.*, 32(5):e13237. doi: 10.1111/ctr.13237, PMID: 29532522, 2018
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 197. Kapos FP, Look JO, Zhang L, Hodges JS, Schiffman EL. "Predictors of Long-Term Temporomandibular Disorder Pain Intensity: An 8-Year Cohort Study." *J Oral Facial Pain Headache*, 32(2):113-122, doi: 10.11607/ofph.1819, PMID: 29694463, 2018
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 200. Skube ME, Mills PD, Hodges JS, Beilman GJ, Bellin MD. "Islet Graft Function Is Preserved After Pregnancy in Patients With Previous Total Pancreatectomy With Islet Autotransplant." *Pancreas*, 47(9):e64-e65, doi: 10.1097/MPA.0000000000001129, PMID: 30199492, 2018
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 202. Dengel DR, Kelly AS, Zhang L, Wang Q, Hodges JS, Steinberger J, Baker KS. "Vascular Structure and Function in Cancer Survivors after Hematopoietic Stem Cell Transplantation." *Biol Blood Marrow Transplant*, 2019 Jan;25(1):151-156. doi: 10.1016/j.bbmt.2018.08.005, PMID: 30103017
 203. al'Absi M, Lemieux A, Hodges JS, Allen S. "Circulating orexin changes during withdrawal are associated with nicotine craving and risk for smoking relapse." *Addict Biol*, 24(4):743-753. doi: 10.1111/adb.12643, PMID: 30117237, 2019.
 204. Marjańska M, McCarten JR, Hodges JS, Hemmy LS, Terpstra M. "Distinctive Neurochemistry in Alzheimer's Disease via 7 T In Vivo Magnetic Resonance Spectroscopy." *J Alzheimers Dis*, 68(2):559-569, 2019. doi: 10.3233/JAD-180861, PMID: 30775983.

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206. Maalouli WM, Hodges JS. "Croup Admissions: Can We Shrink the Elephant in the Room?" *Pediatr Emerg Care*, 2019 Mar 28. doi: 10.1097/PEC.0000000000001829. [Epub ahead of print] PMID: 30925569
207. Chow LS, Manoogian ENC, Alvear A, Fleischer JG, Thor H, Dietsche K, Wang Q, Hodges JS, Esch N, Malaeb S, Harindhanavudhi T, Nair KS, Panda S, Mashek DG. "Time-Restricted Eating Effects on Body Composition and Metabolic Measures in Humans who are Overweight: A Feasibility Study." *Obesity (Silver Spring)*, 28(5):860-869. doi: 10.1002/oby.22756, PMID: 32270927, 2020.
208. Lindsay A, Baumann CW, Rebbeck RT, Yuen SL, Southern WM, Hodges JS, Cornea RL, Thomas DD, Ervasti JM, Lowe DA. "Mechanical factors tune the sensitivity of mdx muscle to eccentric strength loss and its protection by antioxidant and calcium modulators." *Skelet Muscle*, 10(1):3. doi: 10.1186/s13395-020-0221-2, PMID: 32007101, 2020.
209. Gutama BW, Yang Y, Beilman GJ, Freeman ML, Kirchner VA, Pruett TL, Chinnakotla S, Downs EM, Trikudanathan G, Schwarzenberg SJ, Hodges JS, Bellin MD. "Risk Factors Associated With Progression Toward Endocrine Insufficiency in Chronic Pancreatitis." *Pancreas*, 48(9):1160-1166. doi: 10.1097/MPA.0000000000001394, PMID: 31593013, 2019.
210. McEachron KR, Skube ME, Yang Y, Hodges JS, Wilhelm J, Beilman G, Chinnakotla S, Schwarzenberg SJ, Bellin MD. "Utility of arginine stimulation testing in preoperative assessment of children undergoing total pancreatectomy with islet autotransplantation." *Clin Transplant.*,33(8):e13647. doi: 10.1111/ctr.13647, PMID: 31230395, 2019.
211. Conroy AL, Opoka RO, Bangirana P, Idro R, Ssenkusu JM, Datta D, Hodges JS, Morgan C, John CC. "Acute kidney injury is associated with impaired cognition and chronic kidney disease in a prospective cohort of children with severe malaria." *BMC Med.*, 17(1):98. doi: 10.1186/s12916-019-1332-7, PMID: 31109328, 2019
212. Halper A, Sanchez B, Hodges JS, Dengel DR, Petryk A, Sarafoglou K. "Use of an aromatase inhibitor in children with congenital adrenal hyperplasia: Impact of anastrozole on bone mineral density and visceral adipose tissue." *Clin Endocrinol (Oxf)*, 91(1):124-130. doi: 10.1111/cen.14009, PMID: 31070802, 2019.

Peer-reviewed archived datasets

1. Hyun M, Hodges JS, Brearley AM. "Obstetrics and Periodontal Therapy (OPT) Dataset." *TSHS Resources Portal*, URL <https://www.causeweb.org/tshs/obstetrics-and-periodontal-therapy/> June 2019.

Books

1. *Bayesian and Likelihood Methods in Statistics and Econometrics: Essays in Honor of George A. Barnard*, eds. S Geisser, JS Hodges, SJ Press, and A Zellner. North-Holland/American Elsevier, New York, 1990.

2. *Case Studies in Bayesian Statistics*, eds. C Gatsonis, JS Hodges, RE Kass, and ND Singpurwalla, Springer-Verlag, 1993.
3. *Case Studies in Bayesian Statistics, Volume II*, eds. C Gatsonis, JS Hodges, RE Kass, and ND Singpurwalla, Springer-Verlag, 1995.
4. *Case Studies in Bayesian Statistics, Volume III*, eds. C Gatsonis, JS Hodges, RE Kass, RE McCulloch, P Rossi, and ND Singpurwalla, Springer-Verlag, 1997.
5. *Richly Parameterized Linear Models: Additive, Time Series, and Spatial Models Using Random Effects*, JS Hodges, Chapman & Hall, 2013

Reviews

1. Hodges JS. Review of AC Atkinson, *Plots, Transformations, and Regression*, in *Journal of the American Statistical Association*, Vol. 82, 689-691, 1987.
2. Hodges JS. Review of M West and J Harrison, *Bayesian Forecasting and Dynamic Models*, in *Journal of the American Statistical Association*, Vol. 86, 547-548, 1991.
3. Hodges JS, Pihlstrom BL. Review of nQuery Advisor (software). *Journal of Dental Research*, Vol. 77, 525-526, 1998.

Commentary

1. Invited discussant of “Bayesian decision support using environmental transport-and-fate models”, by RL Wolpert, LJ Steinberg, and KH Reckhow, in *Case Studies in Bayesian Statistics*, eds. C Gatsonis, JS Hodges, RE Kass, and ND Singpurwalla, Springer-Verlag, 1993, 286-290.
2. Invited comment on “Statistical values, quality, and certification”, by PB Imrey, in *The American Statistician*, Vol. 48, 75, 1994.
3. Comment on “Some statistical heresies”, by JK Lindsey, in *The Statistician*, 48:36, 1999.
4. Comment on “Bayesian measures of model complexity and fit”, by DJ Spiegelhalter, NG Best, BP Carlin, and A van der Linde, *J. Royal Stat. Soc., Ser. B*, 64:631-632, 2002.
5. Comment on “Multiple bias modeling for analysis of epidemiologic data (with discussion)”, by S Greenland, *J. Royal Stat. Soc., Ser. A*, 168:267-306, Hodges comment p. 299, 2005.
6. Invited comment on “Estimating incumbency advantage and its variation”, by A Gelman and A Huang, in *J. Amer. Stat. Assn*, 103:437-451, 2008, Hodges comment pp. 448-449.
7. Invited comment, “Intention-to-treat has implications for study planning and execution, not just subject retention and followup”. *J. Clin. Perio.*, 35:683-684, 2008.
8. Hodges JS, Michalowicz BS, comment on “Issues and early evidence for the economic evaluation of the effects of periodontal therapy on pregnancy outcomes” by R Quinonez, SC Stearns. (*J Periodontol*, 79:203-206, 2008). *J Periodontol.*, 79:772, 2008; author reply 773.
9. Comment on “Approximate Bayesian inference for latent Gaussian models using integrated nested Laplace approximations (with discussion)”, by H Rue, S Martino, N Chopin, *J. Royal Stat. Soc., Ser. B*, 71:319-392, 2009, Hodges comment p. 371.

10. Invited comment, “Are exercises like this a good use of anybody’s time?”, *Ecology*, 91:12, 3496-3500, 2010; part of a forum on Heisey DM, Osnas EE, Cross PC, Joly DO, Langenberg JA, Miller MW, “Linking process to pattern: estimating spatiotemporal dynamics of a wildlife epidemic from cross-sectional data”, *Ecological Monographs* 80:2, 221-240, 2010.
11. Invited comment, “We can understand complex models (at least, sometimes)”, *Environmetrics*, 24:527-528, on Szpiro AA & Paciorek CJ “Measurement error in two-stage analyses, with application to air pollution epidemiology”, *Environmetrics*, 24:501-517, 2013.
12. Fienberg SE, Hodges JS, Luo LY, letter to the editor of *J. American Statistical Association* book review section about Yang Y, Land KC *Age-Period-Cohort Analysis: New Models, Methods, and Empirical Applications*, 110:457, with rejoinder, 2015.
13. Invited comment on Finucane MM, Paciorek CJ, Stevens GA, Ezzati M, “Semiparametric Bayesian Density Estimation With Disparate Data Sources: A Meta-Analysis of Global Childhood Undernutrition”, *J. American Statistical Association Applications and Case Studies* invited paper, 110:903–905, 2015.
14. “Swinging for the fence in a league where everyone bunts.” Invited comment on Simpson DP, Rue H, Martins T, Riebler A, Sørbye SH, “Penalising model component complexity: A principled, practical approach to constructing priors”. *Statistical Science*, 32:33-35, 2017.
15. Pihlstrom BL, Hodges JS, Michalowicz B, Wohlfahrt JC, Garcia RI. “Promoting oral health care because of its possible effect on systemic disease is premature and may be misleading.” *J Am Dent Assoc.*, 149(6):401-403, doi: 10.1016/j.adaj.2018.03.030, PMID: 29804570, 2018. Authors’ response to letters: Pihlstrom BL, Hodges JS, Michalowicz B, Wohlfahrt JC, Garcia RI. *J Am Dent Assoc.*, 149(9):751-752, doi: 10.1016/j.adaj.2018.07.010, PMID: 30165973, 2018

Refereed RAND Publications

1. Hodges JS. *Modeling the Demand for Spare Parts: Estimating the Variance-to-Mean Ratio and Other Issues*, RAND, N-2086-AF, 1985.
2. Levine RA, Hodges JS, Goldsmith M. *Utilizing the Data from the Army’s National Training Center: Analytical Plan*, RAND, N-2461-A, 1986.
3. Myers CW, Alexander AJ, Hodges JS. *Superfund Remedial Program Improvement Options: Evaluation Design*, RAND, N-2530-EPA, 1986.
4. Goldsmith M, Hodges JS. *Applying the National Training Center Experience: Tactical Reconnaissance*, RAND, N-2628-A, 1987.
5. Draper DC, Hodges JS, Leamer EE, Morris CN, Rubin DB. *A Research Agenda for Assessment and Propagation of Model Uncertainty*, RAND Corporation, N-2683-RC, 1987.
6. Goldsmith M, Hodges JS, Burn ML III. *Applying the National Training Center Experience: Artillery Targeting Accuracy*, RAND, N-2984-A, 1990.
7. Hodges JS. *Onward Through the Fog: Uncertainty and Management Adaptation in Systems Analysis and Design*, RAND, R-3760-AF/A/OSD, 1990.
8. Hodges JS, Dewar JA. *Is It You or Your Model Talking? A Framework for Model Validation*, RAND, R-4114-AF/A/OSD, 1992.

9. Hillestad R, Solomon K, Chow B, Kahan J, Hoffman B, Brady S, Stoop J, Hodges JS, Kloost-erhuis H, Stiles G, Frinkling E, Carrillo M, *Airport Growth and Safety: A Study of the External Risks of Schiphol Airport and Possible Safety-Enhancing Measures*, RAND, MR-288-EAC/VW, 1993.
10. Hodges JS. *Models and Algorithms for Repair Parts Investment and Management*, RAND, MR-314-A/USN, 1993.
11. Brauner MK, Hodges JS, Relles DA. *Using Value to Manage Repair Parts: An Annotated Briefing*, RAND, MR-311-A/USN, 1993.
12. Brauner MK, Hodges JS, Relles DA. *An Approach to Understanding the Relative Value of Parts*, RAND, MR-313-A/USN, 1993.
13. Dewar JA, Bankes SC, Hodges JS, Lucas T, Saunders-Newton D, Vye P. *Credible Uses of the Distributed Interactive Simulation (DIS) System*, RAND, MR-607-A, 1996.

EDITORIAL ACTIVITY

Associate Editor, Applications and Case Studies Section, *Journal of the American Statistical Association*, 1990-1997, 2012-2017.

Associate Editor, Special Section on Quality Control in Federal Welfare Programs, *Journal of the American Statistical Association*, 1989.

Refereeing, journals: *American J. of Epidemiology*, *Annals of Applied Statistics*, *Applied Statistics*, *Austrian J. Statistics*, *Bayesian Analysis*, *Bayesian Statistics 7*, *Biometrics*, *Biometrika*, *Biostatistics*, *Canadian J. Statistics*, *Clinical Trials*, *Computational Statistics and Data Analysis*, *Controlled Clinical Trials*, *Contemporary Drug Problems*, *Ecology*, *Environmetrics*, *European J. Operations Research*, *Haceteppe Journal of Mathematics and Statistics*, *Interfaces*, *International Statistical Review*, *J. American Dental Assn.*, *J. American Statistical Assn.*, *J. Business and Economic Statistics*, *J. Clinical Periodontology*, *J. Computational and Graphical Statistics*, *J. Dental Research*, *J. Exposure Analysis and Environmental Epidemiology*, *J. General Internal Medicine*, *J. Periodontology*, *J. Prosthetic Dentistry*, *J. Royal Statistical Society (Series A)*, *J. Royal Statistical Society (Series B)*, *J. Royal Statistical Society (Series C)*, *J. Statistical Planning and Inference*, *Medical Care*, *Scandinavian J. Statistics*, *Spatial Statistics*, *Statistical Modeling*, *Statistical Science*, *Statistics in Medicine*, *Stochastic Environmental Research & Risk Assessment*, *Technometrics*, *The American Statistician*, *TEST*, *Transactions in Biomedical Engineering*.

Grant reviewing: Austrian Science Fund, FONDECYT (Chilean equivalent of NSF), National Academy of Sciences, National Institute of Child Health and Human Development (NICHD), National Institute of Dental and Craniofacial Research (NIDCR), National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK), National Science Foundation, National Security Agency

PROFESSIONAL ACTIVITY

Research subject in six health-care research studies.

Judge, Savage Award competition (for outstanding doctoral dissertation), International Society for Bayesian Analysis, 2018.

Member, Data and Safety Monitoring Board, NIDDK Kidney Precision Medicine Project, 2018-present

Member, Data and Safety Monitoring Board, NIDDK Pilot Studies of Candidate Therapies for Chronic Kidney Disease (CKD) Cooperative Agreement, 2013-present

Statistical Member, External Advisory Board, NIDDK Consortium for Radiographic Imaging Studies in Polycystic Kidney Disease (CRISP III), 2011-present

Member, Data and Safety Monitoring Board, Xylitol for Adult Caries Trial (X-ACT), Kaiser-Permanente Center for Health Research, funded by National Institute of Dental and Craniofacial Research, 2007-2012

Member, Board of Directors, Task Force on [Oral Health Research] Design and Analysis, Inc., 2007-2012

Program Committee, Third International Conference on Knowledge Discovery and Datamining (KDD-97), Newport Beach, California, Aug 1997

Member, Human Subjects Committee (Institutional Review Board), University of Minnesota, 1996-1997

Invited participant, Committee on Applied and Theoretical Statistics conference on “Statistical Challenges and Possible Approaches in the Analysis of Massive Data Sets”, Jul 1995.

Invited commentator, Department of Health and Human Services Task Force on AIDS Drug Development, Feb 1995.

Invited participant, Committee on National Statistics Workshop on Statistical Issues in Defense Analysis and Testing, session on “Risk Assessment and Costs,” Sept 1992

Member, American Statistical Association Committee on National and International Security, 1988-1994.

ADMINISTRATIVE ACTIVITY

University of Minnesota School of Statistics:

Host Committee, School of Statistics 40th Anniversary Reunion, 2011.

In the Division of Biostatistics:

Division of Biostatistics Admissions Committee, Member 2015-2019, Chair 2017-2019

Chair, School of Public Health Doctoral Dissertation Fellowship Committee, 2014-2019

Member, School of Public Health Doctoral Dissertation Fellowship Committee, 2011-2013

Chair, School of Public Health Recognition, Awards, and Honors Committee, 2014-2019

Chair, Faculty Search Committee, 2011

Member, Faculty Search Committee, 2000, 2014, 2015, 2017

Member, School of Public Health Research Committee, 2004-2006

Research Associate Search Committee, 2001

Admissions Committee, Clinical Research MS Program (Division of Epidemiology), 2000-2003

Chair, Recruitment [of grad students] Committee, 1995-1996

Member, a great variety of committees to review seed grants and other applications

In the Dental School and the Division of Biostatistics:

Director, Data & Coordinating Center, OPT Study, 2002-2006

In the Oral Health Clinical Research Center:

Steering Committee, 1996-2007

Director, Biostatistics Core, 1996-2007

In CPCRA:

Group Leader, 1993-1996

Member, Scientific Agenda Committee and HIV Therapies subcommittee, 1994-1996

At RAND:

Project Leader, “Enhancing the Responsiveness of Naval Aviation Logistics,” 1989

Member, Statistics Search Committee, 1985-1993; Chair, 1988-1991

Coordinator, Statistical Consulting Service, 1987-1993

Project Leader, “Combat Analysis Laboratory,” 1986-1987
Organizer of Combat Analysis Seminar Series, 1986-1991

EDUCATIONAL ACTIVITY

Division of Biostatistics PhD students:

1. Dan Sargent 1996, “A general framework for hierarchical survival models in the Cox proportional hazards regression setting”.
2. Jiannong Liu 2001, “Characterizing modality of the posterior for hierarchical models”.
3. Brian Reich 2005, “Neighbor relation modeling and variance component identification in hierarchical areal data models with application to periodontology, cancer epidemiology, and sports”.
4. Haolan Lu 2005 (co-supervised with Brad Carlin), “Measuring the complexity of generalized linear hierarchical models and Bayesian areal wombling for boundary analysis”.
5. Yi He 2006, “Improving Bayesian analysis and computing in multiple-precision models”.
6. Yue Cui 2007, “Smoothing analysis of variance for general designs and partitioning degrees of freedom in hierarchical and other richly-parameterized models”.
7. Yufen Zhang 2009, “Extending smoothed analysis of variance to new problems”.
8. Lisa Henn 2015 (co-supervised with John Hughes), “Challenges in the analysis of data with clustering or correlation”.
9. Maitreyee Bose 2016, “Understanding Gaussian process fits and some model building tools using an approximate form of the restricted likelihood”.

RAND Graduate School PhD student: Adnan Rahman 1995, “Dealing with model uncertainty in policy analysis: Comparing *Pick-the-best* with *Model-Mixing* approaches”.

Division of Biostatistics MS advisees: Tine Neilsen 1994, Jianyuan Wang 1995, Lisa Bjorling 1995, Lucy Hanna 1995, Kathy Huppler-Hullsiek 1996, Karen Clifton 1997, Erika Rothe 1997, Peiming Ma 1997, Brent Johnson 1997, Wenli Hao 1998, Yihua Zhao 1999, Tricia Roberts 1999, Katie Schaaf 2000, Qiao Fan 2002, Jamie Hoel 2004, Scott Wehrenberg 2005, Qing Cao 2006, Tarek Haddad 2007, Qun Shi 2008, Kristen Ward 2010, Xiaoyan Sheng 2011, Liying Luo 2011, Liangxing Zou 2012, Irine Jephchirchir 2014, John Ssenkusu 2014.

PhD committees: 52 in addition to my advisees, with 36 in Biostatistics and 16 in other departments: Statistics (4), Environmental Health Sciences (2), Epidemiology (2), Physical Medicine & Rehabilitation (3), Health Informatics, Health Policy & Management, Social Work, Sociology, and Applied Economics.

School of Dentistry: About 100 examination committees.

Division of Biostatistics, created and taught a 3-credit PhD-level special topics course, “PubH 8492: Theories of hierarchical and other richly-parameterized models”, Spring 2008, 2010, 2012, 2014, 2016, 2018, 2020.

Division of Biostatistics, guest lectures in graduate courses on Bayesian analysis, clinical trials, correlated data, longitudinal data analysis, regression diagnostics, research methods, sequential analysis, 1995, 1996, 1999, 2004, 2011–present.

Division of Biostatistics, created and taught a 2-credit course, “Written Communications for Biostatistics,” 1995, 1996.

Faculty, Summer Clinical Research Training Workshop, given by the Minnesota Oral Health Clinical Research Center, 1997-2003.

Minneapolis Veterans Affairs Medical Center, created and taught a short course, "Everything Is A Mixed Linear Model", 2008.

Division of Biostatistics, finished teaching "Statistical Methods for Correlated Data" after the professor left the University, 2008.

School of Dentistry, guest lectures in undergraduate course on research methods, 2001.

Faculty, Society for Clinical Trials pre-conference workshop "Data Monitoring Board Practicum: Hands-on Workshop", May 1996.

RAND Statistics Short Course, "The Kalman Filter: Statistical Models for Time-Varying Regressions," with John Adams, 1990.

Supervised RAND summer interns: John Grego, 1986; Sally Morton, 1987; John Adams, 1987; Brian Aldershof, 1988; Phil Everson, 1991

College of Biological Sciences Honors Thesis Reader: Jon Strong 2009.

Twin Cities Jewish Middle School, guest lecturer, 1997.

INVITED TALKS

1. NBER-NSF Seminar on Bayesian Inference In Econometrics and Statistics, University of California, Riverside, Oct 1986.
2. American Ornithologists' Union meetings, San Francisco, Aug 1987.
3. NBER-NSF Seminar on Bayesian Inference in Econometrics and Statistics, Gainesville, Florida, Oct 1987.
4. Division of Biostatistics, University of California, Los Angeles, Nov 1987.
5. Department of Mathematics, California State University, San Bernardino, Feb 1988.
6. Department of Statistics, University of California, Berkeley, Apr 1988.
7. ORSA/TIMS Annual meetings, Denver, Colorado, Oct 1988.
8. Institute for Statistics and Decision Sciences, Duke University, Oct 1988.
9. Department of Statistics and Applied Probability, University of California, Santa Barbara, Jan 1989.
10. West Los Angeles Section, Southern California Chapter, American Statistical Association, Feb 1989.
11. Invited discussant, Workshop on Bayesian Robustness, Purdue University, Mar 1989.
12. NBER-NSF Seminar on Bayesian Inference in Econometrics and Statistics, Columbia, Missouri, Apr 1989.
13. Operations Research Department, Naval Postgraduate School, Monterey, California, Jun 1989.
14. MORS Minisymposium on Simulation Validation, Albuquerque, New Mexico, Oct 1990.
15. U.S. Naval Aviation Depots Material Management Executive Board, Norfolk, Virginia, Jan 1991.

16. Fourth Valencia International Meeting on Bayesian Statistics, Peniscola, Valencia, Spain, Apr 1991.
17. Summer Computer Simulation Conference, Baltimore, Maryland, Jul 1991 (talk given by Jim Dewar).
18. George Washington University, Operations Research Department, Washington, DC, Jul 1991.
19. American Statistical Association annual meetings, Atlanta, Aug 1991.
20. Invited discussant, American Statistical Association annual meetings, Atlanta, Aug 1991.
21. MORS Minisymposium on Simulation Validation, Alexandria, Virginia, Mar 1992.
22. Euro TIMS Meeting, Helsinki, Finland, Jun 1992. Talk given by Jim Dewar.
23. Invited discussant, Committee on National Statistics Workshop on Statistical Issues in Defense Analysis and Testing, session on "Risk Assessment and Costs," Sept 1992
24. Invited discussant, 38th Army Research Organization Conference on the Design of Experiments, Santa Monica, CA, Oct 1992.
25. School of Statistics, University of Minnesota, Nov 1993.
26. International Workshop on Hierarchical Models, Rio de Janeiro, Brazil, Dec 1993.
27. WNAR meeting, Los Angeles, California, Jun 1994.
28. RAND Corporation, Santa Monica, California, Jun 1994.
29. Coordinating Centers for Biometric Research, University of Minnesota, Jul 1994.
30. International Society for Bayesian Analysis, Toronto, Canada, Aug 1994.
31. Conference on Forecasting, Prediction, and Modeling in Statistics and Econometrics, National Chiao Tung University, Hsinchu, Taiwan, Dec 1994.
32. Division of Biostatistics, University of Minnesota, Jan 1995.
33. Cambridge Healthtech Institute, 2nd Annual HIV Clinical Trials Workshop, Washington DC, Mar 1995.
34. Harvard School of Public Health, Boston, Massachusetts, Mar 1995.
35. RAND Corporation, Santa Monica, California, Jun 1995.
36. National Institute of Allergy and Infectious Disease, Statistical Issues in HIV/AIDS Research, Jun 1995.
37. AT&T Bell Labs, Murray Hill, New Jersey, Jul 1995.
38. St. Cloud State University, St. Cloud, Minnesota, Nov 1995
39. Iowa State University, Nov 1995
40. UCLA School of Public Health, Los Angeles, California, Feb 1996.
41. US Food and Drug Administration, Antiviral Drug Advisory Committee, Washington DC, Feb 1996
42. Invited discussant, ENAR Spring Meeting, Richmond, Virginia, Mar 1996

43. St. Cloud State University, St. Cloud, Minnesota, Apr 1996
44. Mayo Clinic, Rochester, Minnesota, May 1996
45. 25th Anniversary Meeting, School of Statistics, University of Minnesota, Jun 1996
46. Joint Statistical Meetings, Chicago, Illinois, Aug 1996
47. RAND Corporation, Santa Monica, California, Apr 1997
48. Task Force on [Dental Research] Design and Analysis, Inc., Newark, New Jersey, May 1997
49. Joint Statistical Meetings, Anaheim, California, Aug 1997 (invited speaker and invited discussant)
50. Knowledge Discovery and Data-mining '97, Newport Beach, California, Aug 1997
51. Carnegie-Mellon University, Pittsburgh, Pennsylvania, Sept 1997
52. Royal Statistical Society, London, England, Oct 1997
53. Imperial College of Science and Technology, London, England, Oct 1997
54. Lancaster University, Lancaster, England, Oct 1997
55. St. Cloud State University, St. Cloud, Minnesota, Apr 1998
56. Mayo Clinic, Rochester, Minnesota, Jul 1998
57. Twin Cities Chapter, American Statistical Association, Rochester, Minnesota, Jul 1998
58. Task Force on [Dental Research] Design and Analysis, Inc., Newark, New Jersey, Nov 1998
59. Beth Jacob Congregation, Mendota Heights, Minnesota, May 1999
60. Task Force on [Dental Research] Design and Analysis, Inc., Newark, New Jersey, Nov 2000
61. Biometric Society Eastern North American Region Annual Meetings, Charlotte, North Carolina, Mar 2001
62. Task Force on [Dental Research] Design and Analysis, Inc., Newark, New Jersey, Nov 2001
63. Harvard School of Public Health, Cambridge, Massachusetts, Nov 2001
64. School of Statistics, University of Minnesota, Minneapolis, Minnesota, May 2002
65. Dept of Statistics, University of Iowa, Iowa City, Iowa, Dec 2002
66. International Conference on Evidence-Based Dentistry, Atlanta, Georgia, Nov 2003
67. Twin Cities Chapter, American Statistical Association, Minneapolis, Minnesota, Dec 2003
68. International Association for Dental Research Annual Meetings, Honolulu, Hawaii, Mar 2004
69. Center for Chronic Disease Outcomes Research, Minneapolis Veterans' Affairs Medical Center, Minneapolis, Minnesota, Jul 2004
70. Division of Biostatistics, University of Minnesota, Minneapolis, Minnesota, Nov 2004
71. Naval Postgraduate School, Monterey, California, Feb 2005
72. RAND Corporation, Santa Monica, California, Feb 2005

73. Joint Statistical Meetings, Invited Presentation, Minneapolis, Minnesota, Aug 2005
74. Division of Biostatistics, University of Minnesota, Minneapolis, Minnesota, Oct 2005
75. Division of Biostatistics, University of Minnesota, Minneapolis, Minnesota, Oct 2006
76. Section of General Internal Medicine, Minneapolis Veterans' Affairs Medical Center, Minneapolis, Minnesota, Jan 2007
77. Division of Biostatistics, Columbia University, New York, May 2007
78. Augsburg College, Minneapolis, Minnesota, Oct 2007
79. Center for Chronic Disease Outcomes Research, Minneapolis Veterans Affairs Medical Center, Minneapolis, Minnesota, Jan 2008
80. Invited Speaker, Joint Statistical Meetings, Washington DC, Aug 2009
81. Mayo Clinic — University of Minnesota Biostatistics Colloquium, Rochester MN, Oct 2009
82. Task Force on [Dental Research] Design and Analysis, Inc., Newark, New Jersey, Nov 2009
83. Division of Biostatistics, University of Minnesota, Minneapolis, Sept 2010
84. Task Force on [Dental Research] Design and Analysis, Inc., Newark, New Jersey, May 2012
85. Department of Biostatistics, University of Washington, Seattle, May 2012
86. Division of Biostatistics, University of Minnesota, Minneapolis, Sept 2012
87. Joint Statistical Meetings (Topic Contributed Paper), Montreal, Quebec, Canada, Aug 2013
88. MD Anderson Cancer Center, Houston, Texas, May 2014
89. Joint Statistical Meetings, invited discussant, *Journal of the American Statistical Association* Applications and Case Studies invited paper, Seattle, Washington August 2015
90. Division of Biostatistics, University of Minnesota, Minneapolis, Minnesota, April 2016
91. Department of Biostatistics, UCLA, Los Angeles, California, May 2017
92. RAND Corporation, Santa Monica, California, May 2017
93. Joint Statistical Meetings (Topic Contributed Paper), Vancouver, BC, Canada, Aug 2018
94. National Taiwan University School of Public Health, Taipei, Taiwan, Dec 2019
95. National Tsing Hua University, Institute of Statistics, HsinChu, Taiwan, Dec 2019
96. Academia Sinica, Institute of Statistical Sciences, Taipei, Taiwan, Dec 2019
97. University of Nebraska Medical Center, Department of Biostatistics, Lincoln, NE, Mar 2019 (postponed due to COVID-19).

June 2020