

## **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**

2024-2026 Visiting Professor, Taipei Medical University, Taipei, Taiwan  
2022-2023 Visiting Professor, Institute of Epidemiology and Preventive Medicine, College of Public Health, National Taiwan University, Taipei, Taiwan  
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 Kalyanam 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, Kalayanan 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 list.

## PROFESSIONAL ORGANIZATIONS

American Statistical Association, 1983-present  
Biometric Society, Eastern North American Region, 1993-2023  
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, Mari-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 pcnetmeta 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. Luo LY, Hodges JS. "Constraints in random effects age-period-cohort models." *Sociological Methodology*, 50:276-317, 2020. DOI: 10.1177/0081175020903348
56. Lavine M, Hodges J. "Intuition for an Old Curiosity and an Implication for MCMC." *The American Statistician*, 75:1-6, 2021
57. Wang Z, Lin L, Hodges JS, MacLehose R, Chu H. "A variance shrinkage method improves arm-based Bayesian network meta-analysis." *Stat. Methods Med. Res.*, 30:151-165, 2021. doi: 10.1177/0962280220945731. PMID: 32757707
58. Lin L, Chu H, Hodges JS. "On evidence cycles in network meta-analysis." *Stat. Interface*, 13:425-436, 2020. doi: 10.4310/sii.2020.v13.n4.a1. PMID: 32742550
59. Wang Z, Lin L, Hodges JS, Chu H. "The impact of covariance priors on arm-based Bayesian network meta-analyses with binary outcomes." *Stat. in Med.*, 39:2883-2900, 2020. PMID: 32495349, doi: 10.1002/sim.8580.
60. 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*;51(3):1164-1210, 2022. DOI: 10.1177/0049124119882451.
61. Xiao M, Lin L, Hodges JS, Xu C, Chu H. "Double-zero-event studies matter: A re-evaluation of physical distancing, face masks, and eye protection for preventing person-to-person transmission of COVID-19 and its policy impact." *Clin. Epidemiol.*, 2021 Feb 2:S0895-4356(21)00032-9. doi: 10.1016/j.jclinepi.2021.01.021. PMID: 33539929
62. Wang Z, Lin L, Murray T, Hodges JS, Chu H. "Bridging randomized controlled trials and single-arm trials using commensurate priors in arm-based network meta-analysis", *Annals of Applied Statistics*, 2021, Vol. 15, No. 4, 1767?1787, doi:10.1214/21-AOAS1469
63. Zhou J, Hodges JS, Chu H. "A Bayesian Hierarchical CACE Model Accounting for Incomplete Noncompliance With Application to a Meta-analysis of Epidural Analgesia on Cesarean Section." *J. American Statistical Assn.*, 116(536), pp. 1700–1712
64. Rott, K.W., Lin, L., Hodges, J.S., Siegel, L., Shi, A., Chen, Y., Chu, H. "Bayesian meta-analysis using SAS PROC BGLIMM." (2021) *Research Synthesis Methods*, 12 (6), pp. 692-700.
65. Zhou, T., Zhou, J., Hodges, J.S., Lin, L., Chen, Y., Cole, S.R., Chu, H. "Estimating the Complier Average Causal Effect in a Meta-Analysis of Randomized Clinical Trials With Binary Outcomes Accounting for Noncompliance: A Generalized Linear Latent and Mixed Model Approach." (2022) *American Journal of Epidemiology*, 191 (1), pp. 220-229.
66. Adin A, Goicoa T, Hodges JS, Schnell P, Ugarte MD. "Alleviating confounding in spatio-temporal areal models with an application on crimes against women in India." *Statistical Modelling*;23(1):9-30, 2023. doi: 10.1177/1471082X211015452
67. Datta A, Banerjee S, Hodges JS, Gao L. "Spatial disease mapping using directed acyclic graph auto-regressive (DAGAR) models." *Bayesian Analysis*, 2019 Dec;14(4):1221-1244. doi: 10.1214/19-ba1177. Epub 2019 Oct 3. PMID: 33859772

68. Lian, Q., Zhang, J., Hodges, J.S., Chen, Y., Chu, H. "Accounting for post-randomization variables in meta-analysis: A joint meta-regression approach." *Biometrics*;79(1):358-367, 2023. doi: 10.1111/biom.13573. Epub 2021 Nov 10. PMID: 34587296
69. Rott KW, Bronfort G, Chu H, Huling JD, Leininger B, Murad MH, Wang Z, Hodges JS. Causally interpretable meta-analysis: Clearly defined causal effects and two case studies. *Res Synth Methods*. 2024 Jan;15(1):61-72. doi: 10.1002/jrsm.1671. Epub 2023 Sep 11. PMID: 37696604

### **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 Beirn 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 operatory 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 Beirn 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, Korioth 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 intra-venous 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, Korioth 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  $\phi$ 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. Johaneck 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 (DentiPatchTM) 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 Rehabab.*, 30:1-5, 2003.
38. Brosky ME, Korieth 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, Maccecchini 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.
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249. Gnikpingo T, Benson S, Hodges JS, Downs E, Cook M, Schwarzenberg SJ, Chinnakotla S, Bellin MD. Islet graft function by mixed meal tolerance testing is sustained over 4 years in young children undergoing total pancreatectomy with islet autotransplantation. *Clin Transplant.* 2023 Dec;37(12):e15106. doi: 10.1111/ctr.15106. Epub 2023 Aug 31. PMID: 37650380
250. al'Absi M, DeAngelis BN, Nakajima M, Hodges JS, Budney A, Hatsukami D, Allen S. Biobehavioral and affective stress responses during nicotine withdrawal: Influence of regular cannabis co-use. *Psychopharmacology (Berl).* 2024 Feb;241(2):253-262. doi: 10.1007/s00213-023-06481-w. Epub 2023 Oct 28. PMID: 37897498
251. Uppgaard R, Nadeau R, Schiffman EL, Stiharu T, Johnson KS, Hodges JS, Velly AM. Occurrence and Predictors of Postoperative Preauricular and Masticatory Muscle Pain Symptoms After Surgical Removal of Third Molars: A Single-Blind Randomized Controlled Trial Comparing Dental Assistants Supporting the Mandible and the Restful Jaw Device. *J Oral Maxillofac Surg.* 2024 Jan;82(1):6-18. doi: 10.1016/j.joms.2023.09.021. Epub 2023 Oct 5. PMID: 37898152
252. Nanno Y, Hodges JS, Freeman ML, Trikudanathan G, Schwarzenberg SJ, Downs EM, Ramanathan K, Pruett TL, Beilman GJ, Chinnakotla S, Hering BJ, Bellin MD. Early Metabolic Measures Predict Long-term Insulin Independence in Recipients of Total Pancreatectomy and Islet Autotransplantation. *Transplant Direct.* 2023 Dec 12;10(1):e1561. PMID: 38094130, doi: 10.1097/TXD.0000000000001561.
253. Hodges JS, DeAngelis BN, Borodovsky J, Budney A, al'Absi M. Impact of Early-Life Adversity on Cannabis Use: Exploring the Mediating and Moderating Effects of Chronic Pain. *Cannabis Cannabinoid Res.* 2024 Mar 18, online ahead of print. PMID: 38498016, DOI: 10.1089/can.2023.0218

## 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.
4. Hodges JS. Review of *Writing Grant Proposals in Epidemiology, Preventive Medicine, and Biostatistics*, Second Edition by Lisa Chasan-Taber, *Biometrics*, to appear.

## 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
16. Lavine M, Hodges J. Contribution to the Discussion of “Assumption-lean inference for generalised linear model parameters” by Vansteelandt and Dukes. *Journal of the Royal Statistical Society. Series B: Statistical Methodology*;84(3):713-714, 2022. doi: 10.1111/rssb.12527

## 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, Kloostheruis 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*, *Computer Methods and Programs in Biomedicine*, *Controlled Clinical Trials*, *Contemporary Drug Problems*, *Ecology*, *Environmetrics*, *European J. Operations Research*, *Hacettepe 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, Sociological Methodology, 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, 2018-2021

Member, Data and Safety Monitoring Board, NIDDK Pilot Studies of Candidate Therapies for Chronic Kidney Disease (CKD) Cooperative Agreement, 2013-2018

Statistical Member, External Advisory Board, NIDDK Consortium for Radiographic Imaging Studies in Polycystic Kidney Disease (CRISP III), 2011-2016

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**

In the Division of Biostatistics:

Member, Grant-in-Aid Review Committee, Office of the VP for Research, 2022-2024  
Member, School of Public Health Appointment, Promotion, Tenure Committee, 2021-2023  
Member, School of Public Health Ad Hoc Committee [on appointment and tenure policy], 2021  
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

University of Minnesota School of Statistics:

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

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".

10. Kollin Rott, expected 2024 (co-supervised with Jared Huling), on causally-interpretable meta-analysis.
11. Justin Clark, expected 2024 (co-supervised with Jared Huling), on causally-interpretable meta-analysis.

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 Huppel-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 Jepchirchir 2014, John Ssenkus 2014.

PhD committees: 57 in addition to my advisees, with 39 in Biostatistics and 18 in other departments: Statistics (4), Physical Medicine & Rehabilitation (3), Health Policy & Management (3), Environmental Health Sciences (2), Epidemiology (2), Health Informatics, Social Work, Sociology, and Applied Economics.

School of Dentistry: About 100 MS examination committees.

Division of Biostatistics, created a 3-credit PhD-level special topics course (PubH 8492: Theories of hierarchical and other richly-parameterized models) and taught it Spring 2008, 2010, 2012, 2014, 2016, 2018, 2020, and Fall 2023.

National Taiwan University, College of Public Health, with Prof. Yu-Kang Tu co-created and co-taught a 3-credit PhD-level course, EPM7014 “Advanced analytical methods for meta-analysis”, Spring 2023.

National Taiwan University, College of Public Health, short course (12 hours, non-credit) “Mixed Linear Models”, March 2024.

Division of Biostatistics, independent study course on spatial statistics for Austin Rau (PhD student, Division of Environmental Health Sciences), 2021.

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, Oct 2020
98. National Dong Hwa University, Department of Applied Mathematics, Hualian, Taiwan, May 2023
99. Statistical Analysis Methodology: Summit Symposium, National Taiwan University, Taipei, Taiwan, May 2023
100. Joint Statistical Meetings (Invited Discussant of Topic Contributed Paper session), Toronto, Ontario, Canada, Aug 2023
101. Taipei Medical University, Taipei Taiwan, March 2024

March 2024