

REID D. LANDES

Curriculum Vitae

August 2011

Biostatistics
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EDUCATION

May 2005 PhD in Statistics, Iowa State University
Dissertation: Statistical methods for applications to calibration problems
Advisor: Stephen B. Vardeman
May 1999 MS in Biometry, University of Nebraska
May 1994 BSE in Mathematics, Southern Arkansas University
magna cum laude

PROFESSIONAL EXPERIENCE

2010-present Associate Professor, Biostatistics, University of Arkansas for Medical Sciences
2005-2010 Assistant Professor, Biostatistics, University of Arkansas for Medical Sciences
2001-2004 Statistical Consultant, Agricultural Experiment Station, Iowa State University
1999-2001 Biostatistician, Biometry, University of Arkansas for Medical Sciences
1999 Statistical Consultant, Department of Plant Pathology, University of Nebraska

TEACHING EXPERIENCE

2007-2010 Nonparametric Methods (F)
2006 Biostatistics I (Sp)
2005 Biostatistics I (Su), Nonparametric Methods (F)
University of Arkansas for Medical Sciences
2003 Statistical Methods for Research Workers (Su)
Iowa State University
1997-1999 Introduction to Biometry (F, Sp)
University of Nebraska
1996-1997 Introductory English for junior high grades
Kashima Board of Education, Fukushima, JAPAN
1994-1995 High school mathematics
Crossett and Gentry Boards of Education, Arkansas

REFEREED PUBLICATIONS

1. Sheffer, C., MacKillop, J., McGeary, J., Landes, R.D., Carter, L., Yi, R., Jones, B., Christensen, D., Stitzer, M., Jackson, L., and Bickel, W. (to appear) "Delay discounting, locus of control, and cognitive impulsivity independently predict tobacco dependence treatment outcomes in a highly dependent, lower socioeconomic group of smokers." *The American Journal on Addictions*

2. Landes, R.D. (to appear) "Nonlinear regression parameters as outcomes: Simple vs. sophisticated analyses." In Song, W. (editor) *Proceedings of the 2010 Conference on Applied Statistics in Agriculture*. Manhattan, Kansas.
3. Bickel, W.K., Landes, R.D., Christensen, D.R., Jackson, L., Jones, B.A., Kurth-Nelson, Z., and Redish, A.D. (2011 online) "Single- and cross-commodity discounting among cocaine addicts: The commodity and its temporal location determine discounting rate." *Psychopharmacology*
4. Beck, C., Richards, K., Lambert, C., Doan, R., Landes, R.D., Whall, A., Algase, D., Kolanowski, A., and Feldman, Z. (2011) "Factors associated with problematic vocalizations in nursing home residents with dementia," *The Gerontologist*. **51**:3, pp. 389-405.
5. Zelaya, I., Anderson, J., Owen, M., and Landes, R.D. (2011) "Evaluation of spectrophotometric and HPLC methods for shikimic acid determination in plants: Models in glyphosate resistant and susceptible crops." *Journal of Agricultural and Food Chemistry*. **59**:6, pp. 2202-2212.
6. Bickel, W.K., Yi, R., Landes, R.D., Hill, P.F., and Baxter, C. (2011) "Executive function training improves temporal discounting," *Biological Psychiatry*. **69**:3, pp. 260-265.
7. Ronis, M.J.J., Chen, Y., Liu, X., Blackburn, M.L., Shankar, K., Landes, R.D., Fang, N., and Badger, T.M. (2011) "Enhanced expression and glucocorticoid-inducibility of hepatic cytochrome P450 3A involve recruitment of the pregnane-X-receptor to promoter elements in rats fed soy protein isolate," *Journal of Nutrition*. **141**:1, pp. 10-16.
8. Bickel, W.K., Jones, B.A., Landes, R.D., Christensen, D.R., Jackson, L., and Mancino, M. (2010) "Hypothetical intertemporal choice and real economic behavior: Delay discounting predicts voucher redemptions during contingency-management procedures," *Experimental and Clinical Psychopharmacology*. **18**:6, pp. 546-552.
9. Yi, R., King, L.F., Carter, A.E, and Landes, R.D. (2010) "Intertemporal decision-making for a group," *The Psychological Record*. **60**:4
10. Kauth, M.R., Sullivan, G., Blevins, D., Cully, J.A., Landes, R.D., Said, Q., and Teasdale, T. (2010) "Employing external facilitation to implement cognitive behavior therapy in VA clinics: a pilot study," *Implementation Science*. **5**:75, 11 pages.
11. Yi, R., Pitcock, J.A., Landes, R.D., and Bickel, W.K. (2010) "The short of it: Abbreviating the temporal discounting procedure," *Experimental and Clinical Psychopharmacology*. **18**:4, pp. 366-374.
12. Landes, R.D. (2010) "Hierarchical Bayesian calibration of untested devices," *Communications in Statistics - Simulation and Computation*. **39**:7, pp. 1351-1364.
13. Landes, R.D., Pitcock, J.P., Yi, R., and Bickel, W.K. (2010) "Analytical methods for detecting within-individual changes in discounting," *Experimental and Clinical Psychopharmacology*. **18**:2, pp. 175-183.
14. Kodell, R.L., Lensing, S.Y., Landes, R.D., Kumar, K.S., and Hauer-Jensen, M. (2010) "Determination of sample sizes for demonstrating efficacy of radiation countermeasures," *Biometrics*. **66**, pp. 238-248.
15. Yi, R[†], Landes, R.D.[†], and Bickel, W.K. (2009) "Novel models of intertemporal valuation: past and future outcomes," *Journal of Neuroscience, Psychology, and Economics*. **2**:2, pp. 102-111. [†]Contributed equally.
16. Mueller, E.T., Landes, R.D., Kowal, B.P., Yi, R., Stitzer, M.L., Burnett, C.A., and Bickel, W.K. (2009) "Delay of smoking gratification as a laboratory model of relapse: effects of incentives for not smoking and relationship to measures of executive function," *Behavioural Pharmacology*. **20**:461-473.

17. Chopra, M.P., Landes, R.D., Gatchalian, K.M., Jackson, L.C., Buchhalter, A.R., Stitzer, M.L., Marsch, L.A., and Bickel, W.K. (2009) "Buprenorphine medication and voucher contingencies in promoting abstinence from opiates and cocaine," *Experimental and Clinical Psychopharmacology*. **17**:4, pp. 226-236.
18. Jones, B.A., Landes, R.D., Yi, R., and Bickel, W.K. (2009) "Temporal horizon: modulation by smoking status and gender," *Drug and Alcohol Dependence*. **104** Suppl 1:S87-93. PMID: PMC2732767.
19. Chopra, M.P., Landes, R.D., Jones, R.A., Feldman, Z.L., Beck, C. and Griffin, S.T. (2009) "Does the Apolipoprotein E ϵ 4 Genotype Influence the Expression of Depression with Cognitive Impairment?" *International Journal of Geriatric Psychiatry*. **24**:6, pp. 650-652.
20. Landes, R.D. (2009) "Passing on the passion for the profession," *The American Statistician*. **63**:2, pp. 163-172.
21. Mittal, D., Owen, R.R., Lacro, J.P., Landes, R.D., Edlund, M., Valenstein, M., and Jeste, D.V. (2009) "Antipsychotic adherence intervention for veterans over 40 with schizophrenia: results of a pilot study," *Clinical Schizophrenia & Related Psychoses*. **2**:4, pp. 317-25.
22. Suffridge, P.J., Wiggins, M.N., Landes, R.D., and Harper, R.A. (2009) "Diphenhydramine as a topical ocular anesthetic," *Canadian Journal of Ophthalmology*. **44**:2, pp. 181-184.
23. Landes, R.D., Tsai, P-F, and Beck, C. (2008) "Letter to the Editor: Response Letter to Dr. Gaskell, et al.," *Journal of the American Geriatrics Society*. **56**:12, pp. 2355-6.
24. Chopra, M.P., Sullivan, J.R., Feldman, Z., Landes, R.D., and Beck, C. (2008) "Self-, collateral and clinician assessment of depression in persons with cognitive impairment," *Aging & Mental Health*. **12**:6, pp. 675-683.
25. Kowal, B.P., Bickel, W.K., and Landes, R.D. (2008) "Temporal horizons of cigarette satiety: determining the window of time over which recent smoking influences motivation to smoke," *Behavioural Pharmacology*. **19**:4, pp. 339-346.
26. Owen, R.R., Hudson, T., Thrush, C., Purushottam, T., Armitage, T., and Landes, R.D. (2008) "The effectiveness of guideline implementation strategies on improving antipsychotic medication management of schizophrenia," *Medical Care*. **46**:7, pp. 686-691.
27. Stewart, J.R., Kennedy, G.J., Landes, R.D., and Dawson, J.O. (2008) "Foliar-nitrogen and phosphorus resorption patterns differ among nitrogen-fixing and non-fixing temperate-deciduous trees and shrubs," *International Journal of Plant Sciences*. **169**:4, pp. 495-502.
28. Yi, R., Johnson, M.W., Giordano, L.A., Landes, R.D., Badger, G.J. and Bickel, W.K. (2008) "The effects of reduced cigarette smoking on discounting future rewards: an initial evaluation," *The Psychological Record*. **58**:2, pp. 163-174.
29. Wiggins, M.N., Harper, R.A., Landes, R.D., and O'Sullivan, P.S. (2008) "Effects of repeated oral examinations on ophthalmology residents," *British Journal of Ophthalmology*. **92**:4.
30. Tsai, P-F, Landes, R.D., Ghormley, C., Feldman, Z.L., and Beck, C. (2008) "Analgesic intake, cognitive functioning, and disruptive behaviors in elders with cognitive impairment," *Journal of the American Geriatrics Society*. **56**:3, pp. 574-575.
31. Stewart, J.R., Landes, R.D., Koeser, A.K., Pettay, A.L. (2007) "Ecophysiological Performance of Three Novel Woody Species under Water Stress: *Calycanthus occidentalis*, *Fraxinus anomala*, and *Pinckneya pubens*," *HortScience*. **42**:6, pp. 1341-1345.
32. Mittal, D., Palmer, B.W., Dunn, L.B., Landes, R.D., Ghormley, C., Beck, C., Golshan, S., Blevins, D. and Jeste, D.V. (2007) "Comparison of two enhanced consent procedures for patients with mild Alzheimer disease or mild cognitive impairment," *American Journal of Geriatric Psychiatry*. **15**:2, pp. 163-167.

33. Landes, R.D., Loutzenhiser, P. and Vardeman, S.B. (2006) "Hierarchical Bayes statistical analyses for a calibration experiment," *IEEE Transactions on Instrumentation and Measurement*. **55**:6, pp. 2165-2171.
34. Stewart, J.R., Graves, W.R. and Landes, R.D. (2006) "Cold hardiness and vernal bud break of *Rhamnus caroliniana* and *Rhamnus cathartica*," *Journal of the American Society for Horticultural Science*. **131**:3, pp. 345-351.
35. Landes, R.D., Spencer, H.J. and Zelaya, I.A. (2006) "A Bayesian random coefficient nonlinear regression model for a split-plot experiment for detecting differences in the half-life of a compound," In Boyer, J. (editor) *Proceedings of the 2005 Kansas State University Conference on Applied Statistics in Agriculture*, p. 123-132. Manhattan, Kansas.
36. Byrnes-Blake, K.A., Laurenzana, E.M., Landes, R.D., Gentry, W.B. and Owens, S.M. (2005) "The role of monoclonal antibody affinity and time after treatment in the antagonism of (+)-methamphetamine-induced pharmacological effects in rats." *European Journal of Pharmacology*. **521**: 86-94.
37. Byrnes-Blake, K.A., Laurenzana, E.M., Carrol, F.I., Gentry, W.B., Landes, R.D. and Owens, S.M. (2003). "Pharmacodynamic mechanisms of monoclonal antibody-based antagonism of (+)-methamphetamine in rats," *European Journal of Pharmacology*. **461**: 119-128.
38. Stingley, R.L., Gray, W.L., Griffin, B.R. and Landes, R.D. (2003) "Channel catfish virus infection mimics natural infection of channel catfish," *Journal of the Arkansas Academy of Science*. **57**: 181-186.
39. Weinstein, R.S., Chen, J., Powers, C.C., Stewart, S.A., Landes, R.D., Bellido, T., Jilka, R.J., Parfitt, A.M. and Manolagas, S.C. (2002). "Promotion of osteoclast survival and antagonism of bisphosphonate-induced osteoclast apoptosis by glucocorticoids," *Journal of Clinical Investigation*. **109**: 1041-1048.
40. Landes, R.D., Eskridge, K.M., Baenziger, P.S. and Marx, D.B. (2002) "Are spatial models needed for adequately blocked field trials?" In Milliken, G.A. (editor) *Proceedings of the 2001 Kansas State University Conference on Applied Statistics in Agriculture*. Manhattan, Kansas, p. 234-246.
41. Kramer, T.L., Evans, R.B., Mancino, M., Landes, R.D., Booth, B. and Smith, G.R. (2001). "Comparing outcomes of routine care for depression: the dilemma of case-mix adjustment," *Journal of Behavioral Health Services & Research*. Vol **28**, Issue 3.
42. Mancino, A.T., Rubio, I.T., Henry-Tillman, R., Smith, L.F., Landes, R.D., Spencer, H.J., Erkman, L. and Klimberg, V.S. (2001). "Racial differences in breast cancer survival: the effect of residual disease," *Journal of Surgical Research*. **100**: 161-165.
43. Shaughnessy, J., Tian, E., Sawyer, J., Bumm, K. Landes, R.D., Badros, A., Morris, C., Tricot, G. and Barlogie, B. (2000). "High incidence of chromosome 13 deletion in multiple myeloma detected by multiprobe interphase FISH," *Blood*. **96**: 1505-1511.
44. Landes, R.D., Stroup, W.W., Paparozzi, E.T. and Conley, M.E. (2000) "Non-linear models for multi-factor plant nutrition experiments," In Milliken, G.A. (editor) *Proceedings of the 1999 Kansas State University Conference on Applied Statistics in Agriculture*. Manhattan, Kansas, p. 105-119.

OTHER PUBLICATIONS

1. Landes, R.D. and Pitcock, J.A. (2008) "Nonlinear random coefficients regression for estimating an interaction term," *2007 Proceedings of the Social Statistics Section*, American Statistical Association. CD-ROM, p. 3561-3563.
2. Thostenson, J.D. and Landes, R.D. (2008) "Analysis of within-individual areas under the curve weighted by an individual variance," *2007 Proceedings of the Section on Nonparametric Statistics*, American Statistical Association. CD-ROM, p. 1645-1648.
3. Landes, R.D. (2008) "Passing on the passion: recruiting students of statistics," *2007 Proceedings of the Section on Statistical Education*, American Statistical Association. CD-ROM, p. 2154-2161.
4. Landes, R.D. (2007) "Calibration for untested devices," *2006 Proceedings of the Section on Physical and Engineering Sciences*, American Statistical Association. CD-ROM, p. 1748-1750.
5. Landes, R.D. and VanDyk, J. (2006) "The cross-over design: 2-D or not 2-D," Invited. *2005 Proceedings of the Section on Physical and Engineering Sciences and Section on Quality and Productivity*, American Statistical Association. CD-ROM, p. 1738-1741.

MANUSCRIPTS UNDER REVISION OR REVIEW

1. Landes, R.D., Christensen, D.R., and Bickel, W.K. (under revision) "Delay discounting changes in opioid addicts undergoing treatment."
2. Stanger, C., Ryan, S.R., Fu, H., Landes, R.D., Jones, B.A., Bickel, W.K., Budney, A.J. (under revision) "Delay discounting predicts adolescent substance abuse treatment outcome"
3. Yi, R. and Landes, R.D. (under revision) "Temporal and probability discounting by cigarette smokers following acute smoking abstinence."
4. Sheffer, C.E., Stitzer, M., Landes, R.D., Brackman, L., Munn, T., and Moore, P. (under revision) "Socioeconomic disparities in community-based treatment of tobacco dependence."
5. Wiggins, M.N., Landes, R.D., Uwaydat, S.H., and Bhaleeya, S. (under revision) "Primary care physicians' knowledge of the ophthalmic effects of diabetes."
6. Yi, R., Carter, A.E., Landes, R.D. (under review) "Future, past, probability, and social discounting by active methamphetamine users."
7. Jarmolowicz, D.P., Landes, R.D., Christensen, D.R., Jones, B.A., Jackson, L., Yi, R., and Bickel, W.K. (under review) "Single and cross-commodity discounting in cocaine addicts: Money and sex."

MANUSCRIPTS IN PREPARATION

1. Christensen, D.R., Landes, R.D., Bickel, W.K., and others "Computer-delivered treatment for opioid dependence: clinical outcomes."
2. Mueller, E.T., Kowal, B.P., Landes, R.D., Yi, R., Burnett, C.A., and Bickel, W.K. "Education and reinforcing value of cigarettes predict rates of delay discounting among smokers."
3. Bickel, W.K., Redish, A.D., Landes, R.D., Kurth-Nelson, Z, and others "Successful treatment normalizes the discounting of delayed reinforcers in impulsive addicts."
4. Landes, R.D., Lensing, S.Y., Kodell, R.L., and Hauer-Jensen, M. "Statistical analysis of survival data from radiation countermeasures experiments."

5. Tate, L., Landes, R.D., and Tsai, P-F. "Feasibility of using the Monetary Choice Questionnaire to measure delay discounting in elders: A pilot study."

PRESENTATIONS

1. Landes, R.D. "Questions answered by a sensible animal justification," Research Support Information Network Seminar, UAMS, 1/2011.
2. Landes, R.D. "Tips for a sensible animal justification," Dept. of Neurobiology and Developmental Sciences Seminar, UAMS, 1/2011.
3. Landes, R.D., Christensen, D.R. and Bickel, W.K. "Discounting changes in opioid addicts undergoing treatment," Center for Addiction Research seminar. 10/2010.
4. Landes, R.D. "Notes on fitting nonlinear mixed models in SAS," Biostatistics Journal Club seminar, UAMS, 10/2010.
5. Landes, R.D. "Regression parameters as outcomes: Simple vs. sophisticated analyses," Contributed poster. Joint Statistical Meetings. Vancouver, BC, 08/2010.
6. Landes, R.D. "Nonlinear regression parameters as outcomes: Simple vs. sophisticated analyses," Conference on Applied Statistics in Agriculture. Contributed. Kansas State University, 05/2010.
7. Landes, R.D. "Regression parameters as outcomes: a comparison of analyses,"
 - i. Biostatistics Journal Club seminar, University of Arkansas for Medical Sciences, 10/2009.
 - ii. Center for Addiction Research seminar. 10/2009.
8. Landes, R.D. "Understanding statistics in medical journals," Family & Preventive Medicine Journal Club seminar. UAMS, 01/2009.
9. Landes, R.D. "Models of discounting," Center for Addiction Research seminar. UAMS, 01/2009.
10. Landes, R.D. "A Bayesian calibration involving nonlinear mixed effects models,"
 - Biostatistics Journal Club seminar, University of Arkansas for Medical Sciences, 5/2009.
 - Univ. of Arkansas-Fayetteville, Department of Mathematical Sciences Colloquium. Invited. 4/2009.
 - Eleventh Meeting of New Researchers in Statistics & Probability. Invited. Boulder, CO, 7/2008.
 - Conference on Applied Statistics in Agriculture. Contributed. Kansas State University, 05/2008.
11. Landes, R.D. "Passing on the passion: recruiting students of statistics," Contributed poster. Joint Statistical Meetings. Salt Lake City, UT, 08/2007.
12. Landes, R.D. and Pitcock, J.D. "Nonlinear random coefficients regression for estimating an interaction term," Contributed poster. Joint Statistical Meetings. Salt Lake City, UT, 08/2007.
13. Thostenson, J.D. and Landes, R.D. "Analysis of within-individual areas under the curve weighted by an individual variance," Contributed poster. Joint Statistical Meetings. Salt Lake City, UT, 08/2007.
14. Landes, R.D. and Thostenson, J.D. "Improving inference from discounting data," Center for Addiction Research seminar. UAMS, 06/2007.

15. Landes, R.D. and Thostenson, J.D. "Estimating the variance of an individual's area under the curve," Spring Research Conference. Ames, IA, 05/2007.
16. Pitcock, J. and Landes, R.D. "Analyzing within-individual changes in discounting parameters," Biostatistics Journal Club seminar, University of Arkansas for Medical Sciences, 02/2007.
17. Landes, R.D. A three-part seminar series for recruiting biostatisticians. 2006 – 2007 academic year.
 - i.* "What biostatisticians do." Harding Univ., Henderson State Univ., Hendrix College, Ouachita Baptist Univ., Philander Smith College, Univ. of Arkansas at Pine Bluff, Univ. of Arkansas at Little Rock, and Univ. of Central Arkansas.
 - ii.* "What it takes to become a biostatistician." Harding Univ., Henderson State Univ., Ouachita Baptist Univ., Univ. of Arkansas at Pine Bluff, Univ. of Arkansas at Little Rock, and Univ. of Central Arkansas.
 - iii.* "Selecting the 'right' graduate program." Harding Univ., Henderson State Univ., Ouachita Baptist Univ., and Univ. of Arkansas at Little Rock.
18. Landes, R.D. "Hierarchical Bayesian calibration of untested devices," Contributed poster. Joint Statistical Meetings. Seattle, WA, 08/2006.
19. Landes, R.D. and Spencer, H.J. "Alternative gamma priors for multi-level models," Contributed poster. Valencia 8 / International Society for Bayesian Analysis World Meeting. Valencia, SPAIN, 06/2006.
20. Landes, R.D. "Benefits of Bayes methods: an example with ANOVA,"
 - Invited. Meeting of the Central Arkansas Chapter of the American Statistical Association. Little Rock, AR, 05/2006.
 - For members of the Center on Addiction Research, University of Arkansas for Medical Sciences, 04/2006.
21. Landes, R.D. and Spencer, H.J. "Alternative gamma priors for multi-level models," Biostatistics Journal Club seminar, University of Arkansas for Medical Sciences, 05/2006.
22. Landes, R.D. "Discussion of Andrew Gelman's 'Analysis of variance – why it is more important than ever'," Biostatistics Journal Club seminar, University of Arkansas for Medical Sciences, 01/2006.
23. Landes, R.D. and VanDyk, J. "The cross-over design: 2-D or not 2-D," Invited. Joint Statistical Meetings, Minneapolis, MN, 08/2005.
24. Landes, R.D., Spencer, H.J., Zelaya, I.A. "A Bayesian random coefficient nonlinear regression model for a split-plot experiment for detecting differences in the half-life of a compound," Contributed. Conference on Applied Statistics in Agriculture, Kansas State University, 05/2005.
25. Landes, R.D. "MCMC simulation in Bayes hierarchical models via WinBUGS," Biostatistics Journal Club seminar, University of Arkansas for Medical Sciences, 02/2005.
26. Landes, R.D. "Statistical methods for linear calibration of a digital instrument," Department of Statistics seminar, Iowa State University, 12/2004.
27. Landes, R.D. "Regularity conditions associated with the large sample theory of maximum likelihood estimation," VIGRE Engineering Statistics Working Group seminar, Iowa State University, 11/2004.
28. Landes, R.D. and Zhou, J. "Discussion regarding instrument calibration problems," VIGRE Engineering Statistics Working Group seminar, Iowa State University, 09/2004.

29. Landes, R.D., Loutzenhiser, P., and Vardeman, S. "A Bayesian statistical calibration accounting for measurement error in the reference device "
 - Contributed poster, International Society for Bayesian Analysis World Meeting, CHILE, 05/2004.
 - Contributed, Spring Research Conference, Gaithersburg, MD, 05/2004.
 - Invited seminar, Biostatistics Journal Club, University of Arkansas for Medical Sciences, Little Rock, AR, 03/2004.
 - Invited seminar, Eli Lilly & Company, Greenfield, IN, 03/2004.
 - Invited seminar, Department of Statistics Colloquium, University of Nebraska, 02/2004.
 - Invited seminar, Department of Statistics Colloquium, University of Florida, 01/2004.
30. Landes, R.D. and Recknor, J. "Clients, consulting, and collaborating," Iowa STAT-ers seminar, Iowa State University, 11/2003.
31. Landes, R.D. "The need for spatial models for adequately blocked experiments," Biostatistics Journal Club seminar, University of Arkansas for Medical Sciences, 06/2001.
32. Landes, R.D., Eskridge, K.M., Baenziger, P.S., and Marx, D.B. "Are spatial models needed for adequately blocked field trials?" Contributed paper, Conference on Applied Statistics in Agriculture, Kansas State University, 04/2001.
33. Landes, R.D. "The Kenward-Rogers adjustment in SAS/STAT PROC MIXED," Biostatistics Journal Club seminar, University of Arkansas for Medical Sciences, 05/2000.
34. Landes, R.D., Stroup, W.W., Paparozzi, E.T., and Conley, M.E. "Non-linear models for multi-factor plant nutrition experiments"
 - Contributed paper, Conference on Applied Statistics in Agriculture, Kansas State University, 04/1999.
 - Department of Biometry Colloquium, University of Nebraska, 04/1999.

CONTINUING EDUCATION

- Teaching Scholars Program, by the UAMS Office of Educational Development, 2005 - 2007.
- Participant in the short course "Bootstrap methods and permutation tests" by T. Hesterberg at UAMS, 2005.
- Participant in the short course "Introduction to regression modeling of time to event data" by D. Hosmer at UAMS, 2005.
- Participant in a short course on extensions of blocked and split-plot designs by M. Gumpertz at KSU's Conference on Applied Statistics in Agriculture, 04/2003.
- Participant in a short course on multiple comparisons by S. Westfall at KSU's Conference on Applied Statistics in Agriculture, 04/2001.
- Participant in an ASA short course on generalized linear models by J. Hilbe at St. Jude Children's Research Hospital, 10/2000.
- Participant in a short course on mixture experiments by J. Cornell at KSU's Conference on Applied Statistics in Agriculture, 04/2000.

SERVICE

Professional

Continuing Education Committee Chair for the Section of Quality and Productivity of the ASA, 2008-present.

ASA Chapter Representative for the Central Arkansas Statistical Association, 2008 - present.

Stage 1 Reviewer for NIH Challenge grants (2).

Reviewer for *Brain Research* (1), *BMC Research Notes* (1), and *Proceedings of the Conference on Applied Statistics in Agriculture* (3)

Helped organize short courses sponsored by the Central Arkansas Statistical Association

“Introduction to Meta-Analysis” by T. Griffin, J. Jonkman, and T. Stanley at UAMS, 2009.

“Introduction to Survey Sampling” by J. Lepkowski at UAMS, 2008.

Organized the ASA Fellow nomination packet for Walter Stroup (Professor and Chair, Department of Statistics, University of Nebraska-Lincoln), 2008.

Organized and chaired an invited session entitled “Nested and Crossed Random Effects in Nonlinear Models” for the Joint Statistical Meetings, 2008.

University/College/Department

Member of the UAMS Institution Animal Care and Use Committee (IACUC), 10/2007 - present.

Member of the UAMS Faculty Liason Committee for Faculty Affairs, 10/2007 - 8/2008.

Contributor to GCRC Research Education Seminar Series, UAMS, 03/2005, 10/2006.

UAMS Statistics Journal Club Coordinator, spring 2001.

Contributor to ISU Department of Statistics VIGRE Engineering Statistics Working Group, fall 2004.

PROFESSIONAL MEMBERSHIPS

American Statistical Association, 1999 - present.

Central Arkansas Statistical Association, 1999 - 2001, 2005-present.

Institute of Mathematical Statistics, 2001 - present.

International Society for Bayesian Analysis, 2004 - present.

AWARDS AND HONORS

Teaching Scholar from the UAMS Office of Educational Development, 2007.

From the Department of Statistics at Iowa State University

Eli Lilly and Company Foundation Dissertation Fellowship, 2003-2004

Dan Mowrey Consulting Award, 2002-2003

Kempthorne Award, 2002-2003

Jebe Fellowship, 2001-2004

GlaxoSmithKline Scholar Award, 2001-2002

Outstanding Sophomore mathematics student, Oklahoma Christian Univeristy, 1991

Westlake Scholar, 1989-1993