

Dr. David Daniel
Applied Statistics
New Mexico State University
ddaniel@nmsu.edu

Education

Ph D, Southern Methodist University, Dallas, TX.
Major: Statistics

MS, Southern Methodist University, Dallas, TX.
Major: Statistics

BS, University of New Mexico, Albuquerque.
Major: Math. Minor: Chemistry.

Professional Positions

Academic - Post-Secondary

Associate Professor, New Mexico State University. (August 2004 - Present).

Assistant Professor, New Mexico State University. (August 1994 - August 2004).

Professional

Statistical Scientist, Alcoa Technical Center. (March 1992 - June 1994).

Awards and Honors

2014 College of Business Outstanding Graduate Teaching

2013 Bill Daniels Fellow, Bill Daniels Ethics Foundation

2012 Bill Daniels Fellow, Bill Daniels Ethics Foundation

2011 Bill Daniels Fellow, Bill Daniels Ethics Foundation

2007 College of Business Outstanding Service to the College

American Statistical Association Section on Statistical Consulting Travel Award

American Statistical Association Chapter Service Recognition Award

John Walsh Award in Statistical Science, Southern Methodist University

Teaching Experience

New Mexico State University

A ST 251G, Statistics for Business and Behavioral Sciences

A ST 311, Statistical Applications

A ST 505, Statistical Inference I

A ST 507, Advanced Regression
A ST 515, Statistical Analysis with R
A ST 551, Introduction to Statistical Consulting
A ST 552, Advanced Statistical Consulting
A ST 553, Statistical Consulting Practicum
A ST 598, Special research problems

Non-Credit Instruction

Workshop, Joint Wildlife and Fisheries organizations of Arizona and New Mexico, 40 participants. (February, 2015).

Continuing Education, 57th Transportation Engineering Conference, 300 participants. (April 27, 2012).

Published Intellectual Contributions

Refereed Journal Articles

Adhikari, P., Shukla, M. K., Mexal, J., Daniel, D. (2014). Irrigation with Treated Wastewater: Quantification of Changes in Soil Physical and Chemical Properties. *Irrigation and Drainage Systems Engineering*, 3(1). doi: 10.4172/2168-9768.1000117

Picchioni, G., Mexal, J., Shukla, M., Ruiz, A., Babcock, M., Daniel, D., Saucedo, D. (2012). Land Application of Treated Industrial Wastewater on a Chihuahuan Desert Shrubland: Impacts on the Natural Vegetation. *Arid Land Research and Management*, 26(4), 312-327. <http://www.tandfonline.com/loi/uasr20>

Billiot, M. J., Daniel, D. (2012). Educational context: preparing accounting students to identify ethical dilemmas. *American Journal of Business Education*, 5(3), 10.

Shukla, M. K., Mexal, J. H., Sammis, T., Daniel, D., Adhikari, P., Babcock, M. (2010). Land Application of Industrial Effluent on a Chihuahuan Desert Ecosystem: Impact on Soil Physical and Hydraulic Properties. *New Mexico Water Resources Research Institute*.

Babcock, M., Shukla, M., Mexal, J., Picchioni, G., Daniel, D. (2009). Chemical and Physical Properties of Chihuahuan Desert Soils Irrigated With Industrial Effluent. *Journal of Arid Land Research and Management*, 23, 47-66.

Daniel, D., Lepak, N., Abbot, L. (2007). "Vegetative and Reproductive Phenology of African Rue (*Peganum harmala* L.) in the Northern Chihuahuan Desert". *Southwestern Naturalist*, 52(2), 209-218.

Schwartz, J.P., Waldo, M., Daniel, D. (2005). "Gender Role Conflict and Self-Esteem: Factors Associated with Partner Abuse in Court Referred Men". *Psychology of Men and Masculinity*, V.6, 109-113.

Khandan, N., Daniel, D., White, K. (2004). "Use of Subject-Specific FE Exam Results in Outcomes Assessment". *Journal of Engineering Education*, 73-77.

Rosas-Rosas, O., Valez, R. R., Bender, L. L., Daniel, D. (2003). "Food Habits of Pumas in Northwestern Sonora, Mexico". *Carnivore Ecology*, 31, 2, 528-535.

- Villa, J., Howell, J., Dorfman, P., Daniel, D. (2003). "Problems with Detecting Moderators in Leadership Research Using Moderated Multiple Regression". *Leadership Quarterly*, 14, 3-23.
- Kroll, A.J., Boykin, K., Andersen, M.C., Thompson, B.C., Daniel, D. (2003). "Comparative Ecology, Distribution, and Conservation of the Land Snails (Genera: Ashmunella, Sonorella, and Oreohelix)". *The Southwestern Naturalist*, v. 48(no. 1), 14-22.
- Daniel, D., Brown, L., Martinez, M. (2002). "Community College Leadership Preparation: Changing Needs, Current Perceptions, and Recommendations". *Community College Review*, V.30(no.1), 45-73.
- Adkisson, R., Daniel, D. (2002). "Representative Ideology and the Vote for Welfare Reform". *Policy Studies Review*, V.18(no.3), 148-166.
- Bak, J. M., Boykin, K. G., Thompson, B. C., Daniel, D. (2001). Distribution of Wintering Ferruginous Hawks (*Buteo Regalis*) in Relation to Black-Tailed Prairie Dog (*Cynomys Ludovicianus*) Colonies in Southern New Mexico and Northern Chihuahua. *Journal of Raptor Research*, 35(2), 124-129.
- Daniel, D., Murray, L., Mukherjee, A., Tisone, G., Anderson, D. M., Fredrickson, E. L., Estell, R. E., Rayson, G. D., Havstad, K. M. (2001). "Statistical Analyses of Fluorometry Data from Chloroform Filtrate of Lamb Feces". *Journal of Range Management*, 54, 370-377.
- Picchioni, G., Weinbaum, S., Daniel, D., Karaca, H. (2000). Biological and Practical Importance of Light Microenvironments in a Tree: Participatory Research to Match Teaching and Learning Styles. *Journal of Natural Resources and Life Sciences Education*, 30, 78-87.
- Daniel, D., Gegax, D. (2000). Public Power as Protector: A Cautionary Tale on Municipalization. *Forum for Applied Research and Public Policy*, 15(2), 49-53.
- Trevizo, C., Daniel, D., Nirmalakhandan, N. (2000). Screening Alternative Degreasing Solvents Using Multivariate Analysis. *Environmental Science and Technology*, 34(12), 2587-2595.
- Cole, L., Powell, R., Daniel, D. (2000). The Effects of Upper Body Weight Support upon Cardiovascula, Metabolic, and Electromyographic Variable during Assisted Walking. *International Journal for Rehabilitation Research*, 23, 129-134.
- Prior-Magee, J., Thompson, B., Daniel, D. (1998). Evaluating Consistency of Categorizing Biodiversity Management Status Relative to Land Stewardship for Gap Analysis Program. *Journal of Environmental Planning and Management*, 41, 206-216.
- Guldan, S., Martin, C., Daniel, D. (1998). Interseeding Forage Brassicas into Sweet Corn: Forage Productivity and Effect on Sweet Corn Yield. *Journal of Sustainable Agriculture*, 11, 51-58.
- Peace, J., Daniel, D., Nirmalakhandan, N., Egemen, E. (1997). Predicting Microbial Toxicity of Non-uniform Multi-component Mixtures of Organic Chemicals. *Journal of Environmental Engineering*, 123, 329-334.

Other

- Anderson, D.M., Parker, M., Ralphs, M., Gray, P., Rayson, G., Estell, R.E., Daniel, D., Fredrickson, E.L., Havstad, K.M., Wagner, J. (2003). "Fluorometry as a Tool for Real-Time Botanical Analysis" (ed., vol. V.20, pp. 132). African Journal of Range & Forage Science- Proceedings of the VIIth International Congress.

Daniel, D. (1995). *Decreasing Boundary Bias through a Locally Weighted Least Squares Approach to Nonparametric Curve Estimation*. unrefered University Statistics Center Technical Report.

Daniel, D. (1995). *Reducing the Expected Field Measurements in Environmental Monitoring Requiring Calibration*. unreferred University Statistics Center Technical Report.

Presentations Given

Flores, A., Shukla, M. K., Schutte, B. J., Picchioni, G., Ulery, A. L., Daniel, D., Soil Science Society America Meeting, "Use of concentrate from reverse osmosis for agricultural use," Long Beach, CA. (2014).

Kristin, K. (Other), McMillan, N. J. (Discussant), Catherine, M. (Other), Daniel, D. (Other), Geological Society of America National Meeting, "Provenance Determination of Rubies and Sapphires using Laser-Induced Breakdown Spectroscopy and Multivariate Analysis," Geological Society of America, Denver, CO. (October 30, 2013).

Daniel, D. (Discussant), Teaching Business Ethics Conference, "Short Exercises to Teach Ethics in Statistics," Bill Daniels Ethics Foundation, Hotel Encanto, Las Cruces, NM. (January 5, 2012).

Billiot, M. J. (Discussant), Daniel, D., Glandon, S. P., Glandon, T. A., American Accounting Association 14th Annual Ethics Symposium, "Preparing Accounting Students to Identify Ethical Dilemmas: The Impact of Using Cued Interventions," American Accounting Association, San Francisco, CA. (July 31, 2010).

Billiot, M. J., Daniel, D., Glandon, S. P., Glandon, T. A., American Accounting Association 14th Annual Ethics Symposium, "Preparing Accounting Students to Identify Ethical Dilemmas: The Impact of Using Cued Interventions," American Accounting Association, New York, NY. (August 2009).

Billiot, M. J., Daniel, D., Glandon, S. P., Glandon, T. A., American Accounting Association Annual Meeting, "Preparing Accounting Students to Identify Ethical Dilemmas: The Impact of Using Cued Interventions," American Accounting Association, New York, NY. (August 2009).

Adhikari, P. (Discussant), Shukla, M. K. (Other), Mexal, J. H. (Other), Daniel, D., WRRRI Conference, "Variability of Physical and Chemical Properties of West Mesa Soils Irrigated by Industrial Effluent," Socorro, NM. (August 11, 2009).

Billiot, M. J., Daniel, D., Glandon, S. P., Glandon, T. A., Southwest Business Administration Teaching Conference, "Preparing Accounting Students to Identify Ethical Dilemmas:," Texas Southern university, Houston, TX. (October 2008).

Billiot, M. J., Daniel, D., Glandon, S. P., Glandon, T. A., American Accounting Association Annual Meeting, "Preparing Accounting Students to Identify Ethical Dilemmas:," American Accounting Association, Anaheim, CA. (August 2008).

Adhikari, P. (Discussant), Shukla, M. K. (Other), Mexal, J. H. (Other), Daniel, D., WRRRI Conference, "Impact of Industrial Effluent Application Uniformity on Soil Chemical Properties," Socorro, NM. (August 12, 2008).

Billiot, M. J., Glandon, S., Glandon, T., Daniel, D., Effective Learning Strategies Forum at American Accounting Association 2007 Annual Meeting, "Educational intervention: Preparing accounting students to identify ethical dilemmas.." (2007).

Daniel, D., Gomez, T.L., McMillan, N.J., McManus, C.E., Wise, M.A., Harmon, R.S., "Determining geological provenance of beryls using portable X-ray fluorescence (PXRF) spectrometry," Geological Society of America Abstracts with Programs. (2006).

Daniel, D., McMillan, N.J., McManus, C.E., Harmon, R.S., Gomez, T.L., Wise, M.A., DeLucia, F., Miziolek, A., "What laser-induced breakdown spectroscopy can tell us about mineral composition: The beryl case study," Geological Society of America Abstracts with Programs. (2006).

Daniel, D., Lee, C.K., Taylor, J.P., Andersen, M.C., 3rd North American Duck Symposium, "Distribution Patterns, Survival, and Time-Activity Budgets of Northern Pintail (*Anas acuta*) Wintering in Central New Mexico and Chihuahua, Mexico", Sacramento, CA. (2003).

Intellectual Contributions in Submission

Journal Articles

Bartley, M., Boeing, W. J., Daniel, D., Dungan, B., Schaub, T. Optimization of environmental parameters for *Nannochloropsis salina* growth and lipid accumulation using the Response Surface Method and effects on invading organisms. *Algal Research*.

Yetter-Kochelek, K. A., McMillan, N. J., McManus, C. E., Daniel, D. Provenance Determination of Sapphires and Rubies using Laser-Induced Breakdown Spectroscopy and Multivariate Analysis. *American Mineralogist*.

Research in Progress

"The Effect of Gender on Tax Choices" (On-Going)
Comparing the outcomes by tax court and gender of filer.

Consulting

Southwest Sport and Spine, Las Cruces, NM

Navarro Research / NASA, White Sands Test Facility, NM

EASI / NASA, White Sands Test Facility, NM

Las Cruces Police Department, Las Cruces, NM

Allied Signal / NASA, White Sands Test Facility, NM

Dona Ana County Sheriff's Office, Las Cruces, NM

New Mexico Health Policy Commission, Santa Fe, NM

Comcast, Las Cruces, NM

United Seating & Mobility, Phoenix, AZ

Memorial Medical Center, Las Cruces, NM

Bueno Foods, Albuquerque, NM

New Mexico Office of the Attorney General Office, Santa Fe, NM

El Paso Electric Company, Las Cruces, NM

City of Las Cruces, Las Cruces, NM

Brazilian Institute of Public Health

Las Cruces Public Schools, Las Cruces, NM

University of New Mexico, Albuquerque, NM

The Southwest Environmental Center, Las Cruces, NM

Molecular Desorption & Analysis Laboratory, NASA, White Sands Test Facility, NM

Business, Integrated Insights, Inc., San Diego, CA

Dona Ana Public Health Department, Las Cruces, NM

Business, World Marketing, Inc., Las Cruces, NM