

Brian D. Marx

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Career Objective

A rewarding position in an academic setting which involves research, teaching as well as developing & applying state-of-the-art statistical techniques to statistical problems generated from interdisciplinary research or consulting opportunities.

Education

Ph.D. Statistics, June 1988, Virginia Tech (Virginia Polytechnic Institute and State University), Blacksburg.

Dissertation Title: Ill-conditioned information matrices and the generalized linear model: An Asymptotically biased estimation approach. Adviser: Eric P. Smith.

Interests: Smoothing with Penalized B-splines (P-splines), Generalized Linear & Generalized Additive Modeling, Generalized Estimating Equations, Signal Regression Multivariate Calibration, Biased Estimation, Penalized Likelihood, Binary Data, Regression & Experimental Design.

M.A. Statistics, August 1984, Penn State University, University Park.

Master's Thesis: Interpolation methods for nonparametric confidence intervals. Adviser: Thomas P. Hettmansperger.

B.S. Physiology, June 1982, Michigan State University, East Lansing.

Academic Appointments

Professor of Statistics (with tenure), Department of Experimental Statistics, Louisiana State University, Baton Rouge, LA (1999-present).

Sabbatical Leave, Department of Medical Statistics, Leiden University, The Netherlands (Fall 2001).

C4 Professor of Statistics, Department of Statistics, LMU University of Munich, Germany (Summers 1999 and 2000).

Associate Professor of Statistics (with tenure), Department of Experimental Statistics, Louisiana State University, Baton Rouge, LA (1993-1999).

Sabbatical Leave/Visiting Lecturer, Department of Statistics, Stanford University, CA. (Academic year 1994-1995).

Visiting Scholar, Department of Empirical and Theoretical Sociology, Utrecht University, The Netherlands. (June and July, 1995).

Assistant Professor of Statistics, Department of Experimental Statistics, Louisiana State University, Baton Rouge, LA (1988-1993).

Graduate Assistant in Statistics, Virginia Polytechnic Inst. & S.U., Blacksburg (1984-1988).

Teaching Assistant in Statistics, Penn State University (1982-1984).

Computer Skills

Routine use of *SAS* and *R*, teaching experience with *MINTAB*. Occasional use of *SPSS*.

Scholarly Activities

Publications

Books

Practical Smoothing: The Joys of P-splines (2021). Paul H.C. Eilers and **Brian D. Marx**. Cambridge University Press: Cambridge.

Regression: Models, Methods, and Applications, 2nd Ed.. Ludwig Fahrmeir, Thomas Kneib, Stefan Lang, and **Brian D. Marx**. (2021) Springer: Heidelberg.

Sage Handbook of Multilevel Modeling. (2013). Marc A. Scott, Jeffrey S. Simonoff, and **Brian D. Marx** (Editors). Sage: London.

Book chapters

Simonoff, J.S., M.A. Scott, **B.D. Marx** (2013). Multilevel Modeling. In: *Sage Handbook on Multilevel Modelling* (Eds. M.A. Scott, J.S. Simonoff and B.D. Marx), Sage: London, 1-10.

Marx, B.D. (2010). P-spline varying-coefficient models for complex data. In: *Statistical Modelling and Regression Structures—Festschrift in Honour of Ludwig Fahrmeir* (Eds. T. Kneib & G. Tutz). XXIV, 472p., Physica-Verlag ISBN: 978-3-7908-2412-4, 163-187.

Articles in refereed journals

- Day, J. *et al.* (2020). Multivariate Analyses of Water Quality Dynamics Over Four Decades in the Barataria Basin, Mississippi Delta. *Water* **12**, 3143; doi:10.3390/w12113143
- Ardoin, R. *et al.* (2021). Effects of cricket powder on selected physical properties and US consumer perceptions of whole-wheat snack *International Journal of Food Science and Technology* (Under Review).
- Guice, J. *et al.* (2020). Differences in capacity of high-amylose resistant starch, whole-grain flour, and a combination of both to modify intestinal responses of male Sprague Dawley rats fed moderate and high fat diets. *Journal of Agriculture and Food Chemistry* <https://pubs.acs.org/doi/10.1021/acs.jafc.0c05285>.
- Taghinezhad, A. *et al.* (2021). Predictive statistical cost estimation model for existing single family home elevation projects. *Frontiers* (Under Review).
- Brown, V. M. *et al.* (2020). Effect of Meteorological Variables on Crawfish Harvest in Louisiana, USA *Climate Research*. 81:15-28. <https://doi.org/10.3354/cr01608>
- Ardoin, R. *et al.* (2020). Exploring New and Modified Rejection-Type Thresholds Using Cricket Snack Crackers. *Foods*, **9**, 1352; doi:10.3390/foods9101352
- Massarra, C., C.J. Friedland, **B.D. Marx** and J.C. Dietrich (2020). Binary building attribute imputation, evaluation, and comparison approaches for hurricane damage datasets. *Journal of Performance of Constructed Facilities* **34**(3).
- Smolinsky, L., **B.D. Marx** *et al.* (2020). Computer-based and paper-and-pencil tests: A study in calculus for STEM majors. *Journal of Educational Computing Research*. <http://dx.doi.org/10.1177/0735633120930235>.
- Li, B. and **B.D. Marx** (2019). Multivariate calibration with robust signal regression. *Statistical Modelling* **19**(5): 524–544, <https://doi.org/10.1177/1471082X18782813>.
- Massarra, C. *et al.* (2020). Predictive Multi-Hazard Hurricane Data-Based Fragility Model for Residential Homes Considering Hazard Parameters and Building Attributes Interaction. *Frontiers Built Environment* **22**. <https://www.frontiersin.org/articles/10.3389/fbuil.2020.00147/full>
- Taghinezhad, A. *et al.* (2020). Imputation of first-floor elevation data for avoided loss analysis of flood-mitigated single family homes in Louisiana, U.S.A. *Journal of Frontiers in Built Environment*, **6** <https://doi.org/10.3389/fbuil.2020.00138>.
- Obanda, D. *et al.* (2020). Abundance of the species *Clostridium butyricum* in the gut microbiota contributes to differences in obesity phenotype in outbred Sprague-Dawley CD rats. *Nutrition*. Submitted.
- Fijul Kabir, S.M. *et al.* (2019). Removal of acid dyes from textile wastewaters using fish scales by absorption process. *Clean Technologies* (1): 311-324 <https://doi.org/10.3390/cleantechnol1010021>
- Guice, J. *et al.* (2019). Novel resistant starch type 4 products of different starch origins, production methods, and amounts are not equally fermented when fed to Sprague-Dawley rats. *Molecular Nutrition and Food Research*. DOI: 10.1002/mnfr.201900901
- Smolinsky, L. *et al.* (2019). Online and handwritten homework in Calculus. *The Journal of Educational Computing Research* **57**(6): 1513-1533 <https://doi.org/10.1177/0735633118800808>.
- Rivera-Monroy, V.H, T.M. Danielson, E. Castañeda-Moya1, **B.D. Marx**, *et al.* (2019). Long-term demography and stem productivity of Everglades mangrove forests (Florida, USA): Resistance to Hurricane Disturbance. *Forest Ecology and Management* **440**, 79-91.
- Munnelly, R.T. *et al.* (2019). Habitat suitability for oil and gas platform-associated fishes in Louisiana's nearshore waters. *Marine Ecology Progress Series*, **608**, 199-219.

- Ayin, C.M.. *et al.* (2019). *Ralstonia solanacearum*, *Ganoderma australe*, and bacterial wetwood as predictors of ironwood tree (*Casuarina equisetifolia*) decline in Guam" *Australasian Plant Pathol.* DOI: 10.1007/s13313-019-00666-8
- Smolinsky, L. and **B.D. Marx** (2018). Odds ratios, risk ratios, and Bornmann and Haunschild's new indicators. *Journal of Infometrics* **12**: 732-735.
- Massarra, C., C.J. Friedland, **B.D. Marx** and J.C. Dietrich (2020). Binary building attribute imputation, evaluation, and comparison approaches for hurricane damage datasets. *Journal of Performance of Constructed Facilities* **34**(3).
- Obana, D. *et al.* (2018). CD obese-prone rats, but not obese-resistant, robustly ferment resistant starch without increased weight or fat accretion. *Obesity* **26**(3):570-577.
- Massarra, C., C.J. Friedland, **B.D. Marx** and J.C. Dietrich (2019). Predictive multi-hazard hurricane data-based fragility model for residential homes. *Coastal Engineering* DOI information: 10.1016/j.coastaleng.2019.04.008
- Reeves, D.B. *et al.* (2017). Abundance and distribution of reef-associated fishes around oil and gas platforms in northern Gulf of Mexico's hypoxic zone. *Estuaries and Coasts* **41**(7): 1835-1847 <https://doi.org/10.1007/s12237-017-0349-4>.
- Danielson, T.M, V.H. Rivera-Monroy, E. Castañeda-Moya1, H. Briceño, R. Travieso, **B.D. Marx**, *et al.* (2017). Assessment of everglades mangrove forest resilience: Implications for above-ground net primary productivity and carbon dynamics. *Forest Ecology and Management* **404**: 115-125.
- Saranjampour, P., K.L. Ambrust, and, **B.D. Marx** (2017). Assessing the hydroxyl radical and volatilization roles in the aquatic fate estimations of sulfur heterocycles: Dibenzo thiophene derivatives. *Environmental Toxicology and Chemistry* **36**(9): 1998-2004.
- Reeves, D.B., R.T. Munnely, E.J. Chesney, D.M. Baltz, and **B.D. Marx** (2017). Stone crab *Menippe* spp. populations on Louisiana's nearshore oil and gas platforms: higher density and size at maturity on a sand shoal. *Transactions of the American Fisheries Society* **146**: 371-383.
- Adhikari, P.L., K. Maiti,, E. Overton, B. Rosenheim, and **B.D. Marx** (2016). Distributions and Accumulation Rates of Polycyclic Aromatic Hydrocarbons in the Northern Gulf of Mexico Sediments. *Environmental Pollution*. **212**: 413-423.
- Kadivar,Z., A. English, and **B.D. Marx** (2016). The impact of physical therapy presence in interdisciplinary rounds on discharge disposition and readmission rates. *Journal of Physical Therapy*. **96**: 1705-1713.
- Eilers, P.H.C., **B.D. Marx**, and M. Durban (2015). Twenty years of P-splines. *SORT: Statistics and Operations Research Transactions*. **39** (2): 149-186.
- Marx, B.D.** (2015). Varying-coefficient single-index signal regression. *Chemometrics and Intelligent Laboratory Systems*,**143**: 111-121. doi: 10.1016/j.chemolab.2015.02.005
- Veillon, L., J. Bourgeois, A. LeBlanc , G. Henderson, **B.D. Marx**, S. Muniruzzaman and R.A. Laine (2014). *myo*-Inositol and Phytate are Toxic to Formosan Subterranean Termites (*Isoptera: Rhinotermitidae*). *Journal of Economic Entomology*, **107** (5): 1800-1812 doi: 10.1603/EC13323
- Marx, B.D.**, P.H.C. Eilers, and B. Li (2011). Multidimensional single-index signal regression. *Chemometrics and Intelligent Laboratory Systems*. **109**: 120-130.
- Schlub, R.L., K.A. A. Moore, **B.D. Marx**, *et al.* (2011). Decline of *casuarina equisetifolia* (ironwood) trees on Guam: Symptomatology and explanatory variables. *Phytopathology* **101**:S216
- Castaneda-Moya, E., R.R. Twilley, V.H. Rivera-Monroy, **B.D. Marx**, *et al.* (2011). Patterns of root dynamics in Mangrove forests along environmental gradients in the Florida coastal everglades, USA. *Ecosystems*. DOI 10.1007/s10021-011-9473-3
- Eilers, P.H.C. and **B.D. Marx** (2010). Splines, knots and penalties. Wiley Interdisciplinary Reviews: Computational Statistics. Wiley: NY. DOI: 10.1002/wics.125

- A. Curtis, B. Li, **B.D. Marx**, J.W. Mills and J.C. Pine (2010). A multiple additive regression tree analysis of three exposure measures during Hurricane Katrina. *Disasters: The Journal of Disaster Studies, Policy and Management*. DOI: 10.1111/j.0361-3666.2010.01190.x **35**(1).
- Marx, B.D.**, P.H.C. Eilers, J. Gampe and R. Rau (2010). Bilinear modulation models for seasonal tables of counts. *Statistics and Computing*, **20**(2): 191-202.
- Ding, G., R. Lax, J. Chen, P. Chen, and **B.D. Marx** (2010). Transformations of pseudo-Boolean random variables. *Discrete Applied Mathematics*, **158**: 13-24.
- Zanovec, M., L.G Johnson, **B.D. Marx**, M.J. Keenan, and G. Tuuri (2009). Self-reported physical activity improves prediction of body fatness in young adults. *Medicine & Science in Sports & Exercise*. **41**(2): 328-335.
- Eilers, P.H.C., B.Li., and **B.D. Marx** (2009). Multivariate calibration with single-index signal regression. *Chemometrics and Intelligent Laboratory Systems* **96**: 196-202.
- Li, B. and **B.D. Marx** (2008). Sharpening penalized signal regression. *Statistical Modelling, An International Journal*. **8**(4): 367-383.
- Eilers, P.H.C., J. Gampe, **B.D. Marx**, and R. Rau (2008). Modulation models for seasonal incidence tables. *Statistics in Medicine*, **27**(17): 3430-3441.
- Heim, S., L. Fahrmeir, P.H.C. Eilers, and **B.D. Marx** (2007). Space-varying coefficient models for brain imaging. *Computational Statistics and Data Analysis* **51**: 6212-6228.
- Lane, R.R., J.W. Day, **B.D. Marx**, E. Reyes, E. Hyfield, and J.N. Day (2007). The effects of riverine discharge on temperature, salinity, suspended sediment, and chlorophyll *a* in a Mississippi delta estuary measured using a flow-through system. *Estuarine, Coastal and Shelf Science*, **74**: 145-154.
- Day, J.W., A. Westphal, R. Pratt, E. Hyfield, J. Rybczyk, G.P. Kemp, J.N. Day, and **B.D. Marx** (2006). Effects of long-term municipal effluent discharge on the nutrient dynamics, productivity, and benthic community structure of a tidal freshwater forested wetland in Louisiana. *Ecological Engineering*, **27**: 242-257.
- Stead, M.A., D.M. Baltz, E.J. Chesney, M.A. Tarr, A.S. Kolok, and **B.D. Marx**. (2005).Swimming Performance of Juvenile Florida Pompano after Sublethal Exposure to Ethylene Glycol and Methanol: Synergistic Effects. *Transactions of the American Fisheries Society*, **134**(538): 400-409.
- Marx, B.D.** and P.H.C. Eilers (2005). Multidimensional penalized signal regression. *Technometrics*, **47**(1): 13-22.
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- Lane, R.L., J.W. Day, D. Justic, E. Reyes, **B.D. Marx**, J.N. Day, and E. Hyfield (2004). Changes in stoichiometric Si, N and P ratios of the Mississippi River water diverted through coastal wetlands to the Gulf of Mexico. *Estuarine Coastal and Shelf Science*, **60**: 1-10.
- Pine, J.C., **B.D. Marx**, M. Levitan, and D. Wilkins (2003). Comprehensive assessment of hurricane shelters: lessons from hurricane Georges. *Natural Hazards Review*, **4**(4): 197-205.
- Eilers, P.H.C. and **B.D. Marx** (2003). Multidimensional calibration with temperature interaction using two-dimensional penalized signal regression. *Chemometrics and Intelligent Laboratory Systems*, **66**(2): 159-174.
- Lefort, A.J., C.F. de Hoop, J.C. Pine and **B.D. Marx** (2003). Characteristics of injuries in the logging industry of Louisiana: 1986-1998. *International Journal of Forest Engineering*, **14**(2): 75-89.
- Eilers, P.H.C. and **B.D. Marx** (2002). Generalized linear additive smooth structures. *Journal of Computational and Graphical Statistics*, **11**(4), 758-783.
- Marx, B.D.** and P.H.C. Eilers (2002). Multivariate calibration stability: a comparison of methods. *Journal of Chemometrics*, **16**, 1-12.

- Lane, R.R., J.W. Day, **B.D. Marx**, E. Reyes and G.P. Kemp (2002). Seasonal and spatial water quality changes in the outfall plume of the Atchafalaya, River, Louisiana, USA . *Estuaries* **25**, 30-42.
- Pine, J.C, **B.D. Marx** and A. Lakshmanan (2002). An examination of accidental release scenarios from chemical processing sites: the relation of race to distance. *Social Science Quarterly*, **83**(1), 317-331.
- Marx, B.D.** and P.H.C. Eilers (1999). Generalized linear regression for sampled signals or curves: A P-spline approach. *Technometrics*, **41**(1): 1-13.
- Smith, S., C.F. de Hoop, J.C. Pine and **B.D. Marx** (1999). Logging injuries in Louisiana: nature, trends and rehabilitation considerations. *Journal of Work*, **12**: 261-273.
- Marx, B.D.** and P.H.C. Eilers (1998). Direct generalized additive modeling with penalized likelihood. *Computational Statistics and Data Analysis*, **28**(2): 193-209.
- Pine, J.C. and **B.D. Marx** (1997). Utilizing State hazardous materials transportation data in hazardous analysis. *Journal of Hazardous Materials*, **54**(1-2): 113-122.
- Taylor, K.L., J.B. Grace and **B.D. Marx** (1997). The role of herbivory, competition, physical factors and their interactions in controlling the distribution of three coastal marsh grasses. *American Journal of Botany*, **84**(5): 709-715.
- Eilers, P.H.C. and **B.D. Marx** (1996). Flexible smoothing with B-splines and penalties (with comments and rejoinder). *Statistical Science*, **11**(2): 89-121.
- Marx, B.D.** (1996). Iteratively reweighted partial least squares estimation for generalized linear regression. *Technometrics*, **38**(4): 374-381.
- Rinderer, T.E., **B.D. Marx**, M. Greis and S. Tingek (1996). A scientific note on stratified foraging by Sabah bees on the Yellow Flame tree (*Peltophorum pterocarpum*). *Apidologie*, **27**(5): 423-425.
- Cohen, B.S., A.G. Nelson, M.C. Prevost, G.D. Thompson, **B.D. Marx**, G.S. Morris (1996). Effects of caffeine ingestion on endurance racing in heat and humidity. *European Journal of Applied Physiology*, **73**: 358-363.
- Paccamonti, D., C. Swiderski, **B.D. Marx**, S. Gaunt, D. Blouin (1995). Electrolytes and biochemical enzymes in amniotic and allantoic fluid of the equine fetus during late gestation. *Biology of Reproduction Monograph Series 1: Equine Reproduction VI*: 39-48.
- Vellala, C., **B.D. Marx**, J.C. Pine, A.G. Farr, F.E. Sistler, F. Aghazadeh (1994). Characteristics and cost analysis of injuries & illnesses in poultry processing operations in Louisiana. *Journal of Applied Poultry Research*, **3**: 342-354.
- Dimski, D.S., H.W. Taylor, J. Taboada, J.L. VanSteenhouse, D.H. Swenson, **B.D. Marx** (1994). Toxic and vascular nephropathy associated with orotic acid administration in laboratory cats. *Nephron*, **68**: 275-276.
- Pine, J.C., **B.D. Marx** and C.F. de Hoop (1994). Characteristics of workers' compensation injuries for logging operations in Louisiana: 1985-1990. *Southern Journal of Applied Forestry*, **18**(3): 110-115.
- Lesaffre, E. and **B.D. Marx** (1993). Collinearity in generalized linear regression. *Communications In Statistics: Theory and Methods*, **22**(7): 1933-1952.
- Marx, B.D.** (1992). A simulation study of two-sample inference based on one-sample nonparametric confidence intervals. *Journal of Statistical Computation and Simulation*, **42**: 161-171
- Marx, B.D.** (1992). A continuum of principal component generalized linear regressions. *Computational Statistics and Data Analysis*, **13**: 385-393.
- Hinson, R.A., **B.D. Marx** and A. Main (1992). A case study of a partnership program for Christmas trees. *Journal of Agribusiness*, **10**(1): 3-14
- Marx, B.D.** (1990). A continuum of principal component regression methods. *Journal of Statistical Computation and Simulation*, **37**(3+4): 234-236.
- Marx, B.D.** (1990). A correction for C240, Good and Smith, *JSCS*, **22**:136-142. *Journal of Statistical Computation and Simulation*, **36**(2+3): 193.

- Marx, B.D.** and E.P. Smith (1990). Weighted multicollinearity in logistic regression: Diagnostics and biased estimation techniques with an example from lake acidification. *Canadian Journal of Fisheries and Aquatic Sciences*, **47**(6): 1128-1135.
- Smith, E.P. and **B.D. Marx** (1990). Ill-conditioned information matrices, generalized linear models and estimation of the effects of acid rain. *Environmetrics*, **1**(1): 57-71.
- Marx, B.D.** and E.P. Smith (1990). Principal component estimation for generalized linear regression. *Biometrika*, **77**(1): 23-31.
- Marx, J.T., **B.D. Marx** and J.M. Johnson (1990). High fructose corn syrup in cakes made with all-purpose or cake flour. *Cereal Chemistry*, **67**(5): 502-504.
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Refereed proceedings

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- Marx, B.D.**, P.H.C. Eilers, and B. Li (2011). Multidimensional single-index signal regression. In: Proceedings of the 26th International Workshop on Statistical Modelling, Valencia, Spain. Eds. Armero *et al.*
- Ding, G., R.F. Lax, J. Chen, P. Chen, and **B.D. Marx** (2009). Learning terrorist profiles by optimization with two objectives. In: Proceedings of The 2009 International Conference on Information and Knowledge Engineering, Las Vegas, NV.
- Nunez, K., J. Chen,, P. Chen, G. Ding, R. Lax, and **B.D. Marx** (2008). Empirical comparison of greedy strategies for learning Markov Networks on treewidth k. In: Proceedings of the Seventh International Conference on Machine Learning and Applications, San Diego, CA.
- Marx, B.D.**, J. Gampe, R. Rau, P.H.C. Eilers (2008). Bilinear modulation models for seasonal time series and tables. In: Proceedings of the 23th International Workshop on Statistical Modelling, Utrecht, The Netherlands. Eds. Eilers *et al.*
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- Ding, G., R. Lax, J. Chen, P. Chen, and **B.D. Marx** (2008). Local soft belief updating for relational classification. In: Foundations of Intelligent Systems: 17th International Symposium, ISMIS 2008, Lect. Notes in Comp. Sci. 4994 (Springer, 2008), 525-534.
- P.H.C. Eilers, J. Gampe, **B.D. Marx**, and R. Rau (2007). Modulation models for seasonal life tables. In: Proceedings of the 22th International Workshop on Statistical Modelling. Barcelona, Spain. Eds. Del Castillo *et al.*, 239-244.
- Ding, G., R. Lax, J. Chen, P. Chen, and **B.D. Marx** (2007). Comparisons of greedy strategies for learning Markov networks of treewidth k. In: Proceedings of the 2007 International Conference on Machine Learning: Models, Technologies and Applications. H. Arabnia, M. Dehmer, F. Emmert-Streib and M. Qu Yang (Editors). CSREA Press.
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- Marx, B.D.** and P.H.C. Eilers (1996). Generalized linear regression on sampled signals with penalized likelihood. *In: Proceedings of the 11th International Workshop on Statistical Modeling*, Orvieto, Italy. Eds. A. Forcina, G. Marchetti, R. Hatzinger, G. Galmacci, 259-266.
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- de Hoop, C., J.C. Pine, **B.D. Marx**, C. Vellala (1994). Injuries in Louisiana's logging woods, and what's being done about it. *In: Proceedings of the Council on Forest Engineering Annual Meeting*. Eds. J. Sessions and L. Kellogg. Portland and Corvallis Oregon, 99-108.
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- Marx, B.D.**, P.H.C. Eilers and E.P. Smith (1992). Ridge likelihood estimation for generalized linear regression. *In: Statistical Modeling*, Eds. P. van der Heijden, W. Jansen, B. Francis, G. Seeber. North Holland Publishing Company (Elseviers), Amsterdam, 227-238.
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- Marx, B.D.** (1992). A user's guide to principal components, by J. Edward Jackson. *Journal of the American Statistical Association*, **87**:1242.

Other proceedings and publications

- Schlub, R.L., Mersha, Z., Aime, C.M., Badilles, A., Cannon, P.G., **Marx, B.D.**, McConnell, J., Moore, A., Nandwani, D., Nelson, S.C., Pinyopusarek, K., Schlub, K.A., Smith, J.A., and Spaine, P.O. 2010. Guam Ironwood Tree Decline Conference and Followup. Proc. 4th International Casuarina Workshop, March 22-25, Haikou, China.
- Lefort, A.J., C.F. de Hoop, J.C. Pine and **B.D. Marx**. (2003). Characteristics of Injuries in the Logging Sector of the Forest Products Industry for Louisiana: 1986 to 1998. *In: Proceedings of International Seminar on New Roles of Plantation Forestry Requiring Appropriate Tending and Harvesting Operations*, International Union of Forestry Research Organizations (IUFRO)- Ergonomics, and Japan Forest Engineering Society. Tokyo. Ed: Yoshimura. 536-539. ISBN 4-9901-439-0-0.
- Marx, B.D.**, P.H.C. Eilers, D.P. Auer (2002). Generalized additive models with signal components from medical instruments. Technical Report RR-02-38, Department of Experimental Statistics, LSU.
- Lefort, A., C.F. de Hoop, J.C. Pine and **B.D. Marx** (2001). Characteristics of injuries in logging in Louisiana, U.S.A: 1986 to 1998. , ForWORKNET.
- Lefort, A., C.F. de Hoop, J.C. Pine and **B.D. Marx** (2001). Characteristics of injuries in logging in Louisiana, U.S.A. , ForWorkNet Update. International Labor Office Sectoral Activities Dept., Joint ILO/ECE/FAO Committee, Geneva, Switzerland. 6-7.
- Canchola, J.C., **B.D. Marx**, and J. Catania (1997). Logistic regression modeling in complex surveys: examples using LOGITSE SAS macro. *In: Proceedings of the Western Users of SAS Software* (invited paper), Universal City, CA.
- de Hoop, C.F., J.C. Pine, and **B.D. Marx** (1997). What's being done about logging accidents in Louisiana? *Louisiana Agriculture*, **40**(2): 22-24.
- Canchola, J.C., **B.D. Marx**, and J. Catania (1997). LOGITSE: A SAS macro for logistic regression modeling in complex surveys. *In: Proceedings of SAS User's Group International (SUGI) 22*, San Diego, CA.
- Marx, B.D.** and P.H.C. Eilers (1996). Generalized linear regression on sampled signals with penalized likelihood. *In: Proceedings of the American Statistical Association, Section on Physical and Engineering Sciences*, Chicago, Illinois.
- de Hoop, C., J.C.Pine, **B.D. Marx** and C. Vellala (1995). Cost of major injuries to loggers in Louisiana. *In: Proceedings of the 18th Annual Meeting of the Council on Forest Engineering*, Cashiers, North Carolina, 251-254.
- Marx, B.D.** (1995). It's time for a double-blind vision exam- again. *Amstat News*, **216**:11.
- de Hoop, C., J.C.Pine and **B.D. Marx** (1994). Workers compensation injuries for logging operations in Louisiana: 1985-90. Tech. Release 94-R-27 American Pulpwood Assoc.
- Paccamonti, D., C. Swiderski, **B.D. Marx** and S. Gaunt (1994). Electrolytes and biochemical enzymes in amniotic and allantoic fluid of the equine fetus during the last trimester. *In: Proceedings of the Sixth International Symposia on Equine Reproduction*, Caxambu, Brazil, 7-8.
- de Hoop, C., J.C.Pine and **B.D. Marx** (1993). Major logging injuries in Louisiana: nature & trends. *In: Proceeding of American Society of Agricultural Engineers*, Chicago, IL.
- de Hoop, C., J.C.Pine and **B.D. Marx** (1993). Workers compensation injuries for logging operations in Louisiana: 1985-1990. LSU Agricultural Experiment Station; School of Forestry, Wildlife, and Fisheries; Louisiana State University Agricultural Center.

- de Hoop, C., J.C. Pine and **B.D. Marx** (1993). Louisiana workers' compensation study: fewer claims, higher premiums. *Southern Loggin' Times*, September 93.
- Marx, B.D.** (1993). Excellence in statistics at international science fair. *Amstat News*, **197**.
- Marx, B.D.** (1993). Excellence in statistics at international science fair. *Link Newsletter of the Council of Chapters of the American Statistical Association*, **35**.
- Pine, J.C., R.S. Ullman, **B.D. Marx**, and K. Robbins (1992). Liability of local government units and officers under 42 U.S.C. Section 1983. *Current Municipal Problems*, **18**(3):330-357, Clark, Boardman, Callaghan: New York.
- Pine, J.C., **B.D. Marx** and K. Bevan (1991). Characteristics of compensable cases in Louisiana during 1986. Department of Employment and Training, Office of Workers' Compensation, Baton Rouge, LA.
- Pine, J.C. and **B.D. Marx** (1991). Characteristics of workers' compensation injury and illness claims for logging operations in Louisiana during 1985-1990. LSU Agricultural Experiment Station; School of Forestry, Wildlife, and Fisheries; Louisiana State University Agricultural Center.
- Pine, J.C., R.S. Ullman, **B.D. Marx**, and K. Robbins (1991). Liability of local government units and officers under 42 U.S.C. Section 1983. *Public Official Liability: Decisions in Federal Court*, Volume 2, Number 3. Published by the Public Risk Management Association (PRIMA), Washington, D.C.
- Marx, B.D.** (1991). A macro for principal component logistic regression. In: Proceeding of SAS User's Group International 16, New Orleans, LA.
- Hinson, R.A., **B.D. Marx** and A.C. Main (1990). Analysis of a partnership promotion program for choose-and-cut Christmas trees. *Department of Agricultural Economics and Agribusiness Research Report No. 687*, LAES, LSU Agriculture Center, Baton Rouge.
- Hinson, R., **B.D. Marx** and A. Main (1990). Selling Christmas trees partnership promotional programs. *Louisiana Rural Economist*, **52**(2):2-6.
- Marx, B.D.** and E.P. Smith (1989). Weighted multicollinearity diagnostics for logistic regression. In: Proceeding of SAS User's Group International (SUGI) 14, San Francisco, CA.

Editorial Duties

Coordinating Editor

Statistical Modelling: An International Journal, London: SAGE Publishing (2007-present)

Editor and Initiator

Statistical Modelling: An International Journal, London: Arnold Publishing (2000-2006)

Statistical Editor

Journal of Apicultural Research (1998-2001).

Co-Editor of Statistical Proceedings

Proceedings of the 13th International Workshop on Statistical Modeling (Editors **B.D. Marx** and H. Friedl), New Orleans, USA, July 27-31, 1998 (ix + 516 pages).

Participation at Professional Meetings

Papers presented by Dr. Marx at the following professional meetings

- Thirty-fourth International Workshop on Statistical Modelling (2019), Guimaraes, Portugal.
- Louisiana Chapter of the American Statistical Association (2016). Baton Rouge, LA.
- Louisiana Chapter of the American Statistical Association (2015). Lafayette, LA.
- Thirtieth International Workshop on Statistical Modelling (2015), Linz, Austria
- Twenty-ninth International Workshop on Statistical Modelling (2014), Gottingen, Germany.
- Twenty-sixth International Workshop on Statistical Modelling (2011), Valencia, Spain.

Joint American Statistical Association Meetings (2009). Washington, D.C.
Louisiana Chapter Meeting of the American Statistical Association (2009). Baton Rouge, LA.
Twenty-third International Workshop on Statistical Modelling (2008). Utrecht, The Netherlands.
Twenty-second International Workshop on Statistical Modelling (2007). Barcelona, Spain.
Louisiana Chapter Meeting of the American Statistical Association (2006). Baton Rouge, LA.
Joint American Statistical Association Meetings (2006). Seattle, WA.
Twenty-first International Workshop on Statistical Modelling (2006). Galway, Ireland.
Twentieth International Workshop on Statistical Modelling (2005). Sydney, Australia.
Louisiana Chapter of the American Statistical Association (2005). Baton Rouge, LA.
Joint American Statistical Association Meetings (2003), San Francisco.
Eighteenth International Workshop on Statistical Modelling (2003). Leuven, Belgium.
Joint American Statistical Association Meeting (2002). New York.
Center for Disease Control Symposium on Statistical Methods (2001). Atlanta.
Joint American Statistical Association Meeting (2000). Indianapolis.
Fifteenth International Workshop on Statistical Modeling (2000). Bilbao, Spain.
Joint American Statistical Association Meeting (1999). Baltimore.
Gordon Research Conference: Statistics in Chemistry and Chemical Engineering (1998).
Newport, Rhode Island.
International Biometric Society, Eastern North American Region Meeting (1997). Memphis.
Joint American Statistical Association Statistics Meeting (1996). Chicago.
Eleventh International Workshop on Statistical Modeling (1996). Orvieto, Italy.
Joint American Statistical Association Statistics Meeting (1995). Orlando.
Tenth International Workshop on Statistical Modeling (1995). Innsbruck, Austria.
Ninth European Psychometric Society Meeting (1995). Leiden, The Netherlands.
Joint American Statistical Association Statistics Meeting (1994). Toronto, Ontario.
Ninth International Workshop on Statistical Modeling (1994). Exeter, England.
Joint American Statistical Association Statistics Meeting (1993). San Francisco.
Eighth International Workshop on Statistical Modeling (1993). Leuven, Belgium.
Summer Research Conference in Statistics, Southern Regional Council on Statistics and the
American Statistical Association (1993). Galveston, TX.
Joint American Statistical Association Statistics Meeting (1992). Boston.
Joint American Statistical Association Statistics Meeting (1991). Atlanta.
Sixth International Workshop on Statistical Modeling (1991). Utrecht, The Netherlands.
American Statistical Association Louisiana Chapter Meeting (1991). New Orleans.
SAS User's Group International 16 (1991). New Orleans.
Joint American Statistical Association Statistics Meeting (1990). Anaheim, CA.
Fifth International Workshop on Statistical Modeling (1990). Toulouse, France.
Joint American Statistical Association Statistics Meeting (1989). Washington D.C.
Joint GLIM 89 & 4th International Workshop on Statistical Modeling (1989). Trento, Italy.
SAS User's Group International 14 (1989). San Francisco.
Virginia Academy of Science Statistical Meetings (1988). Charlottesville, VA.

Papers presented by a co-author at the following professional meetings

IEEE International Conference on Granular Computing, Hangzhou, China. (2008)
The 17th International Symposium on Methodologies for Intelligent Systems (ISMIS) (2008),
Toronto, Canada
International Conference on Machine Learning; Models, Technologies and Applications
(MLMTA) (2007), Las Vegas, NV
Conference of International Society for Clinical Biostatisticians (2005), Szeged, Hungary.
Gordon Conference on Statistics in Chemistry (2003). South Hadley, MA.
Japan Forest Engineering Society (2002). Tokyo.
Council on Forest Engineering Annual Meeting (2001). Snowshoe, WV.

OSHA Regulations Workshop: Sustainable Forestry Initiatives (2000-2002). Alexandria, LA
Institute of Biological Engineering Annual Meeting (2001). Sacramento, CA.
Fifteenth International Workshop on Statistical Modeling (2000). Bilbao, Spain.
Western Users of SAS Software Conference (invited talk). (1997). Universal City, CA.
12th International Workshop on Statistical Modeling (1997). Biel, Switzerland.
SAS User's Group International 22. (1997). San Diego.
Eighteenth Annual Meeting of the Council on Forest Engineering (1995). Cashiers, NC.
Council on Engineering Annual Meeting (1994). Portland, Oregon.
International Equine Reproduction Symposia Committee (1994). Caxambu, Brazil.
Industrial Ergonomics & Safety Conference (1994). San Antonio, TX.
American Society of Agricultural Engineers (1993). Chicago.
37th Annual Human Factors and Ergonomics Society (1993). Seattle.
Joint GLIM 92 & 7th International Workshop on Statistical Modeling (1992). Munich.
XXIV^{es} Journees de Statistique (1992). Brussels, Belgium.
19th European Meeting of Statisticians. Bernoulli Society for Mathematical Statistics and Probability (1991). Barcelona, Spain.
Sixth International Workshop on Statistical Modeling (1991). Utrecht, The Netherlands.
International Conference in Statistical Methods for Environmental Sci. (1989). Cairo, Egypt.

Invited presentations

Statistical Modelling: The early years and current state (2020). Thirty-fifth International Workshop on Statistical Modelling. Bilbao, Spain.
Single-index signal regression in Precision Health (2019). Department of Biostatistics, Universite de Montpellier, Montpellier, France.
Single-index signal regression in Precision Health (2019). Department of Biostatistics, Langone Health Department, New York University (NYU), New York, NY.
The craft of generalized linear smoothing using P-splines (2018). Department of Biostatistics, LSU Health Sciences, New Orleans, Louisiana.
Varying-coefficient single-index signal regression (2018). Stern School of Business, New York University (NYU), New York, NY.
Varying-coefficient single-index signal regression (2017). Department of Medical Statistics, University of Southampton, United Kingdom.
Toward both interpretability and competitive prediction in high dimensional semiparametric regression (2016). The Future of Semiparametric Modelling Workshop, Goettingen, Germany.
A refreshing look at the binomial cornerstone of computational biology (2016). Computational Biology Seminar for Undergraduates, LSU.
A fresh look at the binomial: death, freedom and ESP (2015). LSU Science Club, Baton Rouge.
A gentle introduction to statistics (2015). Louisiana School for the Math, Science and Arts, Natchitoches, LA
Varying-coefficient single-index signal regression (2015). Department of Statistics, University of Munich, LMU, Germany.
Varying-coefficient single-index signal regression (2014). Department of Biostatistics, LSU Health Sciences, New Orleans, Louisiana.
P-splines: The spawning, struggles, and successes (2014). Department of Biostatistics, Erasmus Medical Center, The Netherlands.
B-splines and penalties (2014). Department of Biostatistics, LSU Health Sciences, New Orleans, Louisiana.
Single-index signal regression (2013). Department of Statistics, Wharton, University of Pennsylvania.
Multidimensional single-index signal regression (2012). Department of Applied Statistics, Johannes Kepler University of Linz, Austria.

- Multidimensional single-index signal regression (2012). Institute for Statistics, University of Munich, Germany
- Multidimensional single-index signal regression (2011). Department of Statistics, Virginia Tech, Blacksburg, VA.
- Single-index signal regression (2011). Biostatistics, Johns Hopkins University, Baltimore, MD.
- Single-index signal regression (2011). LSU Health Science Center, New Orleans, LA.
- Bilinear varying coefficient surface models with an application to death counts (2009). Rice University, Houston, TX.
- Bilinear varying coefficient surface models with an application to death counts (2009). Hocking Lecture Series, Texas A&M University, College Station, TX.
- Variations on the varying coefficient model (2009). National University of Ireland, Galway, Ireland.
- Bilinear varying coefficient surface models with an application to death counts (2009). Joint Statistical Meetings. Washington, D.C.
- Sharpened signal regression (2008). LSU Health Science Center, New Orleans, LA.
- Sharpened signal regression (2008). Department of Statistical Science. Cornell University, Ithaca, NY.
- Bilinear varying coefficient surface models with an application to death counts (2008). Stanford University, Palo Alto, CA
- Surface varying coefficient models (2008). Department of Economics, University of Bielefeld, Germany.
- Surface varying coefficient models (2007). Department of Statistical Science, Cornell University, Ithaca, NY
- Multidimensional penalized signal regression (2006). Department of Statistical Science, Cornell University, Ithaca, NY.
- Multidimensional penalized signal regression (2005). Department of Information and Management Sciences, New York University, NY, NY.
- Functional regression on sampled signals, curves, and images (2005). University of Campinas, Sao Paulo, Brazil.
- Multidimensional penalized signal regression (2004). Department of Statistics, Duke University, Durham, NC.
- Modern regression in chemometrics (2004). Dept. of Statistics, Virginia Tech, Blacksburg, VA.
- Multidimensional penalized signal regression (2004). Biostatistics, LSU, New Orleans, LA.
- Modern regression in chemometrics (2004). Conference of Texas Statisticians. Nacodoches, TX.
- Penalized image regression (2004). Rice University, Houston, TX.
- Modern regression in chemometrics (2003). Louisiana Chapter Meeting of the ASA.
- Smooth regression coefficient surfaces (2003). University of Munich, Germany.
- Generalized linear additive smooth structures (2002). Rice University, Houston, TX.
- Generalized linear additive smooth structures (2002). Columbia University, New York, NY.
- Multivariate calibration: a comparison of methods (2002). University of Munich, Germany.
- Generalized linear additive smooth structures (2002). International Biometric Society, Eastern North American Regional Meeting, Arlington, VA.
- Ill-conditioned generalized estimating equations (2001). Belgium Society Meeting, Oostende.
- Multivariate calibration stability (2001). Dutch Society for Ordination and Classification (VOC).
- Multivariate calibration stability (2001). University of Amsterdam, The Netherlands.
- Ill-conditioned generalized estimating equations (2000). Louisiana Chapter Meeting of ASA.
- On ill-conditioned GEEs and toward unified biased estimation (2000). University of Munich, Germany.
- Generalized linear regression on sampled signals and curves: A P-spline approach (2000). Department of Biostatistics, Columbia University, New York.
- Generalized linear regression on sampled signals and curves: A P-spline approach (1999). *Technometrics* Invited Paper. Joint American Statistical Association Meeting. Baltimore.

- Generalized linear regression on sampled signals and curves: A P-spline approach (1999).
Econometria y Estadística, Univ. del País Vasco, Bilbao, Spain.
- Generalized linear regression on sampled signals and other additive structures: A P-spline approach (1998). Gordon Research Conference: Statistics in Chemistry and Chemical Engineering. Newport, Rhode Island.
- An overview of alternative approaches for generalized linear modeling with severely ill-conditioned explanatory information. (1997). University of Munich, Germany.
- Explanatory information compression techniques for (generalized) multivariate modeling as an alternative to regularization of the generalized linear model (1997). U. Munich, Germany.
- Generalized linear regression for sampled signals and curves. (1997). International Biometric Society, Eastern North American Region Meeting, Memphis.
- An overview of GAMs with suggestions for penalized likelihood estimation (1995),
Department of Statistics, Rice University.
- Flexible smoothing using B-splines and penalties. (1995). Department of Biostatistics,
University of California, San Francisco.
- P-splines, the Ultimate Smoothers? (1994). Dept. Statistics, University of California, Davis.
- Direct Generalized Additive Modeling using Penalized Likelihood (1994). Department of
Statistics, Stanford University, CA.
- Applications of pulling red and black balls from urns (1992). LSU Pi Mu Epsilon Math Club.
- Generalized linear regression using P-splines, with applications (1992). Department of Biometry
and Genetics, College of Medicine, Louisiana State University, New Orleans.
- Developments and biostatistical applications of generalized linear ridge regression (1992).
Department of Biometry and Genetics, College of Medicine, LSU, New Orleans, LA.
- Developments and biostatistical applications of generalized linear ridge regression (1992).
Department of Statistics, University of Southwestern Louisiana, Lafayette, LA.
- A continuum of principal component generalized linear regressions (1991). Department of
Biometry and Genetics, College of Medicine, Louisiana State University, New Orleans.
- A continuum of principal component generalized linear regressions (1990). Laboratoire de
Statistique et Probabilités, Institut de Recherche en Informatique et Systèmes Aléatoires,
Université de Rennes, France.
- Applications of pulling red and black balls from urns (1990). LSU Pi Mu Epsilon Math Club.
- Some asymptotically biased estimators for generalized linear regression (1989). Department of
Biometry and Genetics, College of Medicine, LSU, New Orleans, LA.
- Ill-conditioned information and the generalized linear model (1989). Department of Statistics,
University of Southwestern Louisiana, Lafayette, LA.

LSU presentations or seminars

- Varying-coefficient single-index signal regression (2014).
- Single-index signal regression (2011).
- Variations on the varying-coefficient model. (2010).
- LSU Math Club. (2008).
- Sharpened signal regression. (2008).
- Splines, knots, and penalties: the craft of smoothing (Part I-IV) (2008).
- Splines, knots, and penalties: the craft of smoothing (Part I) (2005).
- Splines, knots, and penalties: the craft of smoothing (Part II) (2005).
- Smooth regression coefficient surfaces (2003).
- Signal regression stability: a comparison of methods. (2002).
- An examination of accidental release scenarios from chemical processing sites: the relation of
rate to distance. Department of Environmental Studies. (1999).
- Generalized linear additive smooth structures. (1999).
- Generalized linear regression on sampled signals and curves: a P-spline approach. (1999).
- An overview of partial least squares and extensions into the generalized linear model. (1997).

Generalized linear regression on sampled signals and curves (1996).
An overview of GAMs with suggestions for penalized likelihood estimation (1995).
Dissecting ill-conditioned information in logistic regression (1993).
Generalized linear regression using P-splines with applications (1992).
Characteristics of workers' compensation claims for Louisiana loggers (1992).
Developments and biostatistical applications of generalized linear ridge estimation (1991).
A continuum of principal component generalized linear regressions (1990).
Weighted multicollinearity diagnostics for logistic regression (1989).
A simulation study for nonparametric sign confidence intervals (1988).

Short courses presented at professional meeting/ universities

Regression Analysis (2020). Erasmus Medical Center. Rotterdam, The Netherlands.
Generalized Linear Models (2020). University of Mississippi Medical Center. Jackson.
Regression Analysis (2019). Erasmus Medical Center. Rotterdam, The Netherlands.
The Joy of P-splines (2019). University of Gottingen, Germany.
The Craft of Smoothing (2019). Universite de Montpellier, Montpellier, France.
Regression Analysis (2018). Erasmus Medical Center. Rotterdam, The Netherlands.
Regression Analysis (2017). Erasmus Medical Center. Rotterdam, The Netherlands.
The Craft of Smoothing (2017). University of Southampton, United Kingdom.
Regression Analysis (2016). Erasmus Medical Center. Rotterdam, The Netherlands.
The Craft of Smoothing (2016). University of Gottingen, Germany.
Regression Analysis (2015). Erasmus Medical Center. Rotterdam, The Netherlands.
Regression Analysis (2014). Erasmus Medical Center. Rotterdam, The Netherlands.
Regression Analysis (2013). Erasmus Medical Center. Rotterdam, The Netherlands.
The Craft of Smoothing (2013). DAGStat Conference, Freiburg, Germany.
Regression Analysis (2012). Erasmus Medical Center. Rotterdam, The Netherlands.
The Craft of Smoothing (2012). Johannes Kepler University. Linz, Austria.
The Craft of Smoothing (2010). Erasmus Medical Center. Rotterdam, The Netherlands.
An Introduction to Categorical Data Analysis. The Army Conference on Applied Statistics.
Tempe, AZ. (October 19-20, 2009).
Splines, Knots, and Penalties: The Craft of Smoothing. Irish Statistical Society Meetings and the
National University of Ireland, Galway Ireland (October 1-2, 2009).
Splines, Knots, and Penalties: The Craft of Smoothing. Conference on Regression Models, Sao
Pedro, Sao Paulo, Brazil (February 21-23, 2005) www.esalq.usp.br/9emr/.
Splines, Knots, and Penalties: The Craft of Smoothing. Joint American Statistical Association
Meetings. Toronto, Ontario (2004).
Smoothing for Smarties. Eastern North American Region (ENAR) International Biometrics
Conference. Tampa (2003).
Smoothing for Smarties. 18th International Workshop on Statistical Modelling. Leuven, Belgium
(2003).

Professional reviews

Dr. Marx refereed articles for these professional journals or societies:

Statistics and Computing (2017)
Statistics and Computing (2016)
British Journal of Applied Science and Technology (2012)
Statistical Methods in Medical Research (2011)
Biometrics. (2010)
Computational Statistics and Data Analysis. (2008).
Chemometrics and Intelligent Laboratory Systems. (2008)

Computational Statistics and Data Analysis. (2007).
Ralph E. Powe Junior Faculty Award, Oak Ridge Associated Universities (2007).
Biometrics (2006).
Computational Statistics and Data Analysis (2004).
Journal of Computational and Graphical Statistics (2004) [2].
Journal of the Royal Statistical Society, B (2003).
Journal of Computational and Graphical Statistics (2003).
Statistics in Medicine (2003).
Biometrics (2003).
National Science Foundation, Statistics and Probability Proposal (2002).
Computational Statistics (2002) [2].
Ecological Modelling (2002).
Journal of Statistical Computation and Simulation (2001).
Annals of Operations Research (2001).
Journal of Computational and Graphical Statistics (2001) [2].
Journal of the Royal Statistical Society, Series B (2000).
Journal of the Royal Statistical Society, Series B (2000).
Chemometrics and Intelligent Laboratory Systems (2000).
Journal of Statistical Planning and Inference (1999).
National Science Foundation, Statistics and Probability Proposal (1999).
Computational Statistics and Data Analysis (1998).
Biometrika (1998).
National Science Foundation, Statistics and Probability Proposal (1998).
Biometrics (1998).
Journal of the American Statistical Association (1998).
National Science Foundation, Statistics and Probability Proposal (1997).
National Science Foundation, Statistics and Probability Proposal (1997).
Computational Statistics (1997).
National Science Foundation, Statistics and Probability Proposal (1996).
National Science Foundation, Statistics and Probability Proposal (1996).
Communications in Statistics, B (1996).
Communications in Statistics, B (1994).
Journal of Statistical Planning and Inference (1994).
Journal of Statistical Planning and Inference (1993).
Journal of Statistical Computation and Simulation (1993).
The American Statistician (1993).
Communications in Statistics, B (1992).
Communications in Statistics, B (1990).
Statistical Modeling, North Holland Publishing Company (Elseviers) (1991).
Environmetrics (1990).
Computational Statistics and Data Analysis (1990).
American Midland Naturalist (1989).

Referee of abstracts for the International Workshop on Statistical Modeling

As an invited member of the scientific committee for the International Workshop on Statistical Modeling, one of Dr. Marx's responsibilities was to referee (between 40-65) detailed abstracts (minimum 3 pages each): Linz, Austria, Utrecht, The Netherlands (1991); Munich, Germany (1992); Leuven, Belgium (1993); Exeter, England (1994); Innsbruck, Austria (1995); Orvieto, Italy (1996); Biel, Switzerland (1997); New Orleans, USA (1998).

Awards

Fellow, American Statistical Association (2018)

For formative contributions to statistical modelling and its practice in the areas of P-spline smoothing, signal regression, and ill-conditioned data; for highly regarded and valued teaching; and for dedicated service in editorial and organizational activities.

International Statistical Institute, Elected Member (2017).

Best Teacher Award, Masters of Analytics, Business School, Louisiana State University (2014-2015).

Sedberry Award, Outstanding Graduate Teacher, College of Agriculture, Louisiana State University (2014-2015).

Virginia Academy of Science Statistical Meetings (1988). Charlottesville, VA. Winner of *Best Student Paper*.

Grants and Contracts

Funded

Effects of wild blueberries on motor performances of Parkinson's patients: A pilot clinical trial. Wild Blueberry Association of North America. (2017-2019) PI: J. Hondzinski *et al.* Dr. Marx was included as statistician. \$39,000.

ITR: Research on the profiling problem in Cybersecurity and Anti-terrorism. *Principal Investigator*: Peter Chen, Computer Science. National Science Foundation, EIA-ITR Medium (Group) Grants (2003 -2009). Dr. Marx was included as co-PI and as statistician. \$1,800,000. Proposal number 0326387.

Calculation of Louisiana Medical Reimbursement Schedule. *Co-Principal Investigators*: J.C. Pine and **B.D. Marx**. Sponsoring Agency: Louisiana Department of Labor. \$71,475 (2006-2007).

Calculation of Louisiana Medical Reimbursement Schedule. *Co-Principal Investigators*: J.C. Pine and **B.D. Marx**. Sponsoring Agency: Louisiana Department of Labor. \$63,439 (2004-2005).

Extern Agreement between C&M Medical Services and LSU Experimental Statistics. *Principal Investigator*: **B.D. Marx**. Sponsoring Agency: C&M Medical Services. \$16,800 (2004-2005).

Statistical Consulting for Ecological Management. *Principal Investigator*: E. Barry Moser. Eglin Air Force Base, Science Applications International Corporation (2003-2004). Dr. Marx was included as statistician. \$18,000.

Ill-conditioned generalized estimating equations. *Principal Investigator*: **B.D. Marx**. National Science Foundation, Division of Mathematical Sciences (2001-2005). \$159,249. Proposal number: 0102131.

Development of a Worker's Compensation Reimbursement Conversion Factor. PI: J.C. Pine. Interagency Agreement between the Office of Worker's Compensation Administration (LA Department of Labor) and LSU. Dr. Marx was included as statistician. \$35,000 (2002).

Revising the Louisiana Workers' Compensation Medical Fee Schedule. PI: J.C. Pine. Interagency Agreement between the Office of Worker's Compensation Administration (LA Department of Labor) and LSU. Dr. Marx was included as statistician. \$39,000 (2001).

National Security Agency Conference & Workshop Grant for the *International Workshop on Statistical Modeling*, 2001-2005. *Principal Investigator*: **B.D. Marx**. NSA, Mathematical Sciences Programs, Conferences. (2002). \$900.

National Science Foundation Conference & Workshop Grant for the *13th International Workshop on Statistical Modeling*, New Orleans, July 1998. *Principal Investigator*: **B.D. Marx**. NSF, Division of Mathematical Sciences, Conferences (1998-99). \$9,000.

National Security Agency Conference & Workshop Grant for the *13th International Workshop on Statistical Modeling*, New Orleans, July 1998. *Principal Investigator*: **B.D. Marx**. NSA, Mathematical Sciences Programs, Conferences (1998-99). \$10,000.

Brian D. Marx - 18

- Financial analysis of Louisiana workers' compensation claims. *Principal Investigator*: J.C. Pine, LSU Department of Biological and Agricultural Engineering. Louisiana Office of Workers' Compensation. Dr. Marx was included as statistician for 1/9 time during Summer 1993. \$30,000 Funded (1992).
- The effects of dietary arginine restriction on urea cycle function and nitrogen excretion in cats. *Principal Investigator*: D.S. Dimski, LSU School of Veterinary Medicine. Morris Animal Foundation. Dr. Marx was included as statistician. \$4,995 Funded (1992).
- Assessment of worker injuries and worker compensation on forest product and processing operations in Louisiana. J.C. Pine and **B.D. Marx**. LSU School of Forestry, Wildlife, and Fisheries. \$21,000/year Funded (1991-1993).
- The diagnosis of a generalized linear model. **B.D. Marx**. LSU Council on Research Summer Faculty Research Award. \$4000 Funded (1991).
- Assessment of worker injuries and worker compensation on forest product and processing operations in Louisiana. J.C. Pine and **B.D. Marx**. LSU Agricultural Experiment Station. \$10,000 Funded (1991).
- Ill-conditioned information and the generalized linear model. **B.D. Marx**. LSU, College of Agriculture, Millard-Perkins Funding Summer research grant. \$4000 Funded (1989).

Pending

- Coupling tDCS and physical exercise to improve brain plasticity and performance: an optimized countermeasure for future exploration-class missions. PIs: Fabian Steinberg, Marc Dalecki, Guillaume Spielmann, Brian Marx. Dr. Marx was included as statistician. NASA NSPIRES. \$148,298 requested. 2021-2022.

Not funded

- Healthy or unhealthy fermentation of resistant starch? USDA NIFA. PI: Michael Keenan. Dr. Marx was included as a Co-Investigator and Statistician. \$499,670 over 4 years requested. 2019-2023.
- Advancing translational and clinical probiotic/prebiotic and human microbiome research. National Institute for Health (NIH) NCCIH. PI: Michael Keenan. Dr. Marx was included as a Co-Investigator and Statistician. \$250,000 requested for each of five years (\$1.25million). 2018-2023.
- Strategic forecasting of specific crude oil toxic effects from predictive constituents identified from high density analytical spectra with multivariate statistical correlation. The National Academies of Science, Engineering, Medicine; Gulf Research Program (2017-2019) PI: Dr Sharon A. Meyer (ULM). Dr. Marx was included as a Co-Investigator and Statistician. \$128,396 requested.
- The impact of intermittent and continuous bouts of artificial gravity on skeletal muscle and bone atrophy during bed rest. NASA Solicitation and Proposed Integrated Review and Evaluation System (NSPIRES) (2016-2018). PIs: G. Spielmann and B. Irving. Dr. Marx was included as Co-Investigator and statistician. \$699,350 requested.
- Understanding the interaction of *Casuarina equisetifolia* decline components responsible for tree loss in windbreaks and landscapes in Guam. Western Sustainable Agriculture Research Education (WSARE). Co-PIs: R. Schlub, C. Husseneder, A. Alvarez, B.D. Marx. (2014-2018).
- Interdisciplinary and multi-state/territory IPM systems approach to ironwood tree (*Casuarina equisetifolia*) decline. NIFA and USDA Regional Integrated Pest Management Competitive Grants Program- Western Region. Co-PIs: R. Schlub, C. Husseneder, A. Alvarez, B.D. Marx. (2013-2016). \$126,595 requested.

- Multivariate statistical approach to screen for Echinacea myelostimulatory principles. LSU Agricultural Center & University of Louisiana, Monroe. Dr. Marx was included as co-PI and statistician, with Sharon Myer. (2012-2013). \$40,000 requested.
- High resolution provenance using tourmaline: Crystal chemical and classification tree statistical approaches. National Science Foundation-EAR. Co-PIs: Darrell Henry and Brian Marx. Dr. Marx was included as co-PI and statistician. (2012-2013). \$205,825 requested.
- High resolution provenance using tourmaline: Crystal chemical and classification tree statistical approach. Louisiana Board of Regents RCS & ITRS Program. Dr. Marx was included as co-PI and statistician. (2011-2012). \$117,724 requested.
- Mitigating the impact of Ironwood tree (*Casuarina equisetifolia*) decline in the Pacific basin. Tropical and Subtropical Agricultural Research (TSTAR) Grant. Dr. Marx was included as statistician. \$137,449 requested. 2011,
- PRISM: Statistics Research and Curriculum Mentoring Program for Undergraduate Students at Louisiana State University. PI: **B.D. Marx**. National Science Foundation (NSF 10-511), DMS-MPS. \$2,000,000 requested, 2011-2015.
- Community and Environmental Risk to Resiliency. PI: J.C. Pine. **B.D. Marx** served as Co-PI. LSU Flagship Cluster Hire Initiative. (2006-2007).
- High Resolution Provenance using Tourmaline: Crystal Chemical and Classification Tree Statistical Approach. *Principal Investigator*: D. J. Henry. **B.D. Marx** is co-PI. National Science Foundation (Petrology and Geochemistry) NSF-EAR (2007-2008). \$199,386 requested.
- Mental Health Services Use in Louisiana after Hurricanes Katrina and Rita. *Principal Investigator*: Claire Advokat. National Institute of Health (NIH) (2006-2007). **B.D. Marx** is co-PI and statistician. \$100,000 requested.
- Merging and Integration of Multiple Security Policies and Systems. *Principal Investigator*: Peter Chen. National Science Foundation (Cyber Trust, NSF 06-517) (2006-2010). **B.D. Marx** is co-PI and statistician. \$951,972 requested.
- CMG Research: Deep drill depth varying-coefficient models. *Principal Investigators*: **B.D. Marx** and D.J. Henry. National Science Foundation, Division of Mathematical Sciences (2005-2008). \$352,970 requested.
- REU supplement for NSF-DMS 0102131. Ill-conditioned generalized estimating equations. *Principal Investigator*: **B.D. Marx**. National Science Foundation, Division of Mathematical Sciences (2005-2006). \$7,900 requested.
- ITR: Specifications and efficient merging algorithms of multiple security policies. *Principal Investigator*: Peter Chen, Computer Science. National Science Foundation, CCF-ITR for National Priorities (2004-2008). Dr. Marx was included as statistician. \$1,956,774.
- Developing attainable nutrient and dissolved oxygen criteria for Louisiana waterbodies (2002). *Principal Investigator*: John Day. Louisiana Department of Environmental Quality. Dr. Marx was included as statistician. \$505,495 + \$283,082 match.
- Collaborative research: systematics of Ti in natural metapelitic biotite: mineralogic and petrologic implications. *Principal Investigator*: D. J. Henry. National Science Foundation, EAR- Petrology and Geochemistry (2003-2004). Dr. Marx was included as statistician for 1/9 time during the summer. \$145,087.
- IGERT Disaster Science: Integrating Science and Technology into Emergency Management. *Principal Investigator*: J.C. Pine. National Science Foundation, DGE-IGERT (2003-2008). Dr. Marx was included as statistician. \$3,241,470.
- Ill-conditioned generalized estimating equations. *Principal Investigator*: **B.D. Marx**. National Science Foundation, Division of Mathematical Sciences (2000-2003). \$156,955 requested.
- Combined Research-Curriculum Development Program (Data Mining). *Principal Investigators*: S. Kundu, J. Chen, and B.D. **Marx**. National Science Foundation, Directorate for Computer and Information Science and Engineering. \$500,000 Total Project Cost (2000-2002).
- Vulnerability zones in Louisiana due to transportation accidents involving extremely hazardous

- substances of petrochemical origin. *Principal Investigators:* J. C. Pine, E. Sajo and **B.D. Marx**. Louisiana Education Quality Support Fund (LEQSF). \$57,442 Total Project Cost + \$45,693 Total Matching Cost. (1999-2001).
- Generalized linear regression on sampled signals and Additive Structures. *Principal Investigator:* **B.D. Marx**. National Science Foundation, Division of Mathematical Sciences (1998-2001). \$116,136 requested.
- Nature and trends of injuries in logging and wood products manufacturing. *Principal Investigators:* de Hoop, Pine, **Marx**, Gazo, Shupe. USDA Fund for Rural America. (1998-2000). \$258,857 requested.
- Generalized linear regression on sampled signals and curves. *Principal Investigator:* **B.D. Marx**. National Science Foundation, Division of Mathematical Sciences (1996). \$75,102.
- A proposal to the California Coastal Commission for assistance in designing a monitoring program for San Onofre Nuclear Generating Station (SONGS) mitigation project. *Principal Investigator:* Joy Zelder, Pacific Estuarine Research Laboratory, San Diego State University. SONGS Mitigation Monitoring Program. Dr. Marx was included as statistician for 1/9 support during Summers 1996-1998.
- U.S. Navy Summer Faculty Research Program. **B.D. Marx**. NAVY-American Society for Engineering Education (1997).
- Generalized linear regression approaches on sampled signals or curves. **B.D. Marx**. LSU Council on Research Summer Faculty Award (1997).
- Toxicological effects of pyridostigmine and its combinations with DEET, Permethrin and Ciprofloxacin. *Principal Investigator:* D.H. Swenson, LSU School of Veterinary Medicine. USAMRDC RFP No. DAMD17-95-#-0009. Dr. Marx was included as statistician for 1/9 support during Summers 1996-1998. \$2,867,896 requested.
- Hyperstabilized antisense oligonucleotide as a first line of defense. *Principal Investigator:* D.H. Swenson, LSU School of Veterinary Medicine. USAMRDC log number 92148004. Dr. Marx was included as statistician for 1/9 support during Summers 1994-1997. \$787,304 requested.
- Effects of wear-corrosion on dental materials. *Principal Investigator:* E.I. Meletis, LSU Department of Mechanical Engineering. Department of Health and Human Services, Public Health Service. Dr. Marx was included as statistician for 1/9 time during Summers 1995-1996. \$300,767 requested.
- Regression techniques when similar curves are the explanatory information. **B.D. Marx**. LSU Council on Research Summer Faculty Award (1996).
- Nature and trends of injuries in Louisiana logging & wood products manufacturing. *Principal investigators:* C.F. deHoop, R.L. Parish, J.C. Pine, **B.D. Marx**, R. Gazo. Louisiana Education Quality Support Fund (LEQSF). Dr. Marx was included as statistician for 1/9 support during Summers 1995-1997. \$232,495 requested, including institutional match.
- Transgenic animal models to study environmental mutagens. *Principal Investigator:* W.R. Lee, LSU Institute for Mutagenesis. Department of Health and Human Services, Public Health Service. Dr. Marx was included as statistician for 1/9 time during Summers 1994-1996. \$5,005,327 requested.
- The effects of dietary arginine restriction on urea cycle function and nitrogen excretion in cats. *Principal Investigator:* D.S. Dimski, LSU School of Veterinary Medicine. Morris Animal Foundation. Dr. Marx was included as statistician. \$45,000 requested (1994).
- Aeronautics and Space Research Program. **B.D. Marx**. NASA-ASEE Summer Faculty Fellowship (1994).
- Enhancing generalized additive modeling. **B.D. Marx**. LSU Council on Research Summer Faculty Award (1994).
- An analysis of the rates and nature of serious logging injuries in selected states with safety programs. *Principal Investigators:* J.C. Pine, **B.D. Marx** & C. de Hoop, LSU. National

- Timber Harvesting and Transportation Safety Council, American Pulpwood Association, Washington, D.C. \$27,000 requested (1993).
- Development on advanced multicomponent coatings by using an intensified plasma-assisted process. *Principal Investigator*: E.I. Meletis, LSU Department of Mechanical Engineering. National Science Foundation and Whitaker Foundation. Dr. Marx was included as statistician. \$593,780 requested (1993).
- Oxygen radical damage as a potential cause of hepatic lipidosis in cats. *Principal Investigator*: D.H. Swenson, LSU School of Veterinary Medicine. Morris Animal Foundation. Dr. Marx was included as statistician. \$48,360 requested (1992).
- A unified approach to biased estimation in the extended class of generalized linear and nonlinear regressions. **B.D. Marx**. National Science Foundation Young Investigator Awards Program (1992).
- Ill-conditioned information and the generalized linear model. **B.D. Marx**. LSU Council on Research Summer Faculty Award (1989).
- Development of a model to predict pesticide residue transfer from foliage to battle dress uniform fabrics. *Principal Investigator*: R.M. Cloud, LSU Department of Human Ecology. Air Force Office of Scientific Research Program. Dr. Marx was included as statistician. \$315,617 requested (1989).
- Ill-conditioned information and the generalized linear model: An asymptotically biased estimation approach. **B.D. Marx**. National Science Foundation, Mathematical Science Postdoctorate Research Fellowship (1988).

Documentation of teaching activities

Teaching load and list of courses taught

- Generalized Linear Models, University of Mississippi Medical Center (2020)
- Statistics 207 (Time Series Analysis), Stanford University, 3 units. Winter (1995).
- Statistics 60/160 (Statistical Methods I)**, Stanford University, 5 units. Summer (1994).
- Generalized Linear and Additive Modeling**, University of Munich, Germany Summer (1999); and Summer (2000).
- Introduction to Social Statistics**, Utrecht University, The Netherlands. Fall (2001).
- Experimental Statistics 3999 (Independent Study)**, LSU, 3 credit hours. Spring 2014; Spring (2015); Spring (2016); Fall (2017).
- Experimental Statistics 4001 (Statistical Methods)**, LSU, 4 credit hours. Fall (1993); Spring (1994); Fall (1997); Spring (1999).
- Experimental Statistics 4055 (Probability and Statistics)**, LSU, 3 credit hours. Fall (1989); Fall (1990).
- Experimental Statistics 7004 (Experimental Statistics - I)**, LSU, 4 credit hours. Spring (1994).
- Experimental Statistics 7005 (Statistical Techniques - I)**, LSU, 4 credit hours. Fall (1988); Fall (1995); Spring (1998); Fall (1998); Fall (1999); Fall (2000); Fall (2002); Spring (2003); Fall (2004), Spring (2005); Fall (2008), Fall (2013), Spring (2014); Spring (2015). Spring (2016). Spring (2017).
- Experimental Statistics 7014 (Experimental Statistics - II)**, LSU, 4 credit hours. Spring (1989); Fall (1991); Spring (1992); Fall (1992); Spring (1993).
- Experimental Statistics 7015 (Statistical Techniques - II)**, LSU, 4 credit hours. Spring (1996); Spring (1997); Spring (2000); Spring (2001); Spring (2002); Fall (2003); Spring (2004); Fall (2005); Spring (2006).
- Experimental Statistics 7031 (Design of Experiments)**, LSU, 3 credit hours. Spring (1996); Spring (1997).

Experimental Statistics 7034 (Regression), LSU, 3 credit hours. Fall (2006); Fall (2007); Fall (2008); Fall (2009); Fall (2010); Fall (2011); Fall (2012); Fall (2013); Fall (2014); Fall (2015); Fall (2016); Fall (2017); Fall (2018); Fall (2019); Fall (2020).

Experimental Statistics 7036 (Categorical Data Analysis), LSU, 3 credit hours. Fall (1996); Fall (1997); Fall (1998); Fall (1999); Fall (2000); Spring (2002); Spring (2003); Spring (2004); Spring (2005); Spring (2006); Spring (2007); Spring (2008); Spring (2009); Spring (2010); Spring (2011); Spring (2012); Spring (2013); Spring (2014); Spring (2015); Spring (2016); Spring (2017); Spring (2018); Spring (2019); Spring (2020); Spring (2021).

Experimental Statistics 7037 (Multivariate Data Analysis), LSU, 3 credit hours. Fall (2016); Spring (2017); Fall (2018); Fall (2019).

Experimental Statistics 7061 (Statistical Theory), LSU, 3 credit hours. Spring (1990); Spring (1991).

Experimental Statistics 7083/4 (Practicum in Statistical Consulting II), LSU, 2 credit hours. Spring (1991); Summer(1993); Fall (1993); Spring (1994); Spring (1996); Fall (1996); Fall (1997); Fall (2020); Spring (2021).

Experimental Statistics 7085 (Special Problem in Statistics), LSU, 1-3 credit hours. Spring (1989); Spring (1990); Summer (1990); Spring (1991); Summer(1993); Fall (1993); Spring (1994); Fall (1996); Spring (1997); Fall (1997); Spring (1998); Fall (1998).

Experimental Statistics 7086 (Advanced Seminar in Statistics), LSU, 1 credit hour. Fall (1992); Spring (1993); Fall (1993); Spring (1994).

Experimental Statistics 7087 (Advanced Topics in Statistics). [Data Analytics, College of Business] Spring (2013); Fall (2013); Fall (2014); Fall (2015); Fall (2016) [2]; Spring 2017; Fall 2018 [MV].

Experimental Statistics 7152 (Advances in Statistical Modelling). [Co-taught with Bin Li] Spring (2011); Spring (2012); Spring (2013); Spring (2014); Spring (2015); Spring (2016); Spring (2017); Spring (2018); Spring 2019; Spring 2020.

Independent Honor Study: undergraduate Mathematics: Spring (1990); Fall (2014).

Chairman of the graduate committees for the following students:

Jingxia Zhou, M.Ap.Stat., Expected Graduation (2022)
Ryan Holland, M.Ap.Stat., Expected Graduation (2021)
Mark V. Russo, M.Ap.Stat. Expected Graduation (2022)
Mohammed Ohaiba, M.Ap.Stat. Graduated (2020)
Zhen Xu, M.Ap.Stat., Graduated (2020)
Yingying Guo, M.Ap.Stat., Graduated (2020)
Alex Tryforos, M.Ap.Stat., Graduated (2020)
Nouf Alrehaili, M.Ap.Stat. Expected Graduation (2021)
Xia Guan, M.Ap.Stat. Graduated (2019)
Amy Ma, M.Ap.Stat. Graduated (2019)
Frank Saforo, M.Ap.Stat. Graduated (2020)
Peeraporn Boodgumarn, M.Ap.Stat. Graduated (2019)
Nadeesha Vidanapathirana, M.Ap.Stat. Graduated (2019)
Jay D. Hunt III, M.Ap.Stat. Expected Graduation (2021)
Yixuan Wen, M.Ap.Stat. Expected Graduation (2019)
Hassan Marzoughi, M.Ap.Stat. Graduated (2019)
Chen Wang, M.Ap.Stat., Expected Graduation (2018)
Carol Massara, M.Ap.Stat. Graduated (2016)
Purnima Praturi, M.Ap.Stat., Graduated (2016)
Stephen Potts, M.Ap.Stat., Graduated (2014)
Shilin Wang, M.Ap.Stat., Graduation (2016)
Samuel Niman, M.Ap.Stat, Graduated (2016)
Luilu Huang, M.Ap.Stat., Graduation (2016)

Hoang Nguyen, M.Ap.Stat., Expected Graduation (2017)
 Dachuan Zhang, M.Ap.Stat., Graduated (2014)
 Leaha Davis, M.Ap.Stat., Graduated (2014)
 Jacob Romer, M.Ap.Stat., Graduated (2015)
 Dawen Liu, M.Ap.Stat., Graduated (2014)
 Hua Wang, M.Ap.Stat. Expected Graduation (2013)
 Xiaohua Yue, M.Ap.Stat., Graduated (2013)
 Ying Chen, M.Ap.Stat., Graduated, Spring (2011)
 Karl Schlub, M.Ap.Stat., Graduated (2010)
 Zhe Li, M.Ap.Stat., Graduated, Spring (2008)
 Lisha Wu, M.Ap.Stat., Graduated, Spring (2008)
 Michelle Barnett, M.Ap.Stat., Graduated, Spring (2008)
 Cheikhna Dedah, M.Ap.Stat., Graduated, Fall (2008)
 Xiuling Liu, M.Ap.Stat., Graduated, Fall (2006)
 Zhifeng Cheng, M.Ap.Stat., Graduated, Summer (2006)
 Qing Tang, M.Ap.Stat., Graduate, Summer (2006)
 Na Hua, M.Ap.Stat., Graduated, Spring (2005)
 Michael Self, M.Ap.Stat., Spring (2005)/ deferred.
 Lucas Beverlin, M.Ap.Stat., Graduated, Spring (2006)
 Michael Harrison, M.Ap.Stat., Spring (2006)/ deferred.
 Jing Liu, M.Ap.Stat., Graduated, Summer (2006).
 Yaowen Chen, M.Ap.Stat., Graduated, Fall (2004)
 Haiyan Yang, M.Ap.Stat., Graduated, Fall (2004)
 Jennifer Sabatier, M.Ap.Stat., Graduated Fall (2002)
 Asli Ogunc, M.Ap.Stat., Expected Graduation.
 Ye Zhou, M.Ap.Stat., Graduated, Summer (2001)
 Michael Beck, M.Ap.Stat., Graduated, Summer (2001)
 Hongzia Zhu, M.Ap.Stat., Graduated, Spring (2001)
 Dawen Sui, M.Ap.Stat., Graduated, Spring (2000)
 Xiaohong Ma, M.Ap.Stat., Graduated Fall (1999)
 Aurna Lakshmanan, M.Ap.Stat., Graduated Spring (1999)
 Larry Pfeifer, M.Ap.Stat., Graduated Spring (1999)
 Silvia Morales, M.Ap.Stat., Graduated Spring (1998)
 Brent Burger, M.Ap.Stat., Graduated Fall (1997)
 Samson Martin, M.Ap.Stat., Graduated Summer (1997)
 Kathleen Feaheny, M.Ap.Stat., Graduated Fall (1996)
 Jiang-Ying Li, M.Ap.Stat., Graduated Fall (1995)
 Qun Zhu, M.Ap.Stat., Graduated Fall (1995)
 James Shao, M.Ap.Stat., Graduated Summer (1994)
 Xu Zhang, M.Ap.Stat., Graduated Fall (1993)
 Guang Yang, M.Ap.Stat., Graduated Spring (1991)
 G. Daniel Ayers, M.Ap.Stat., Graduated Spring (1990)

Member of the graduate committee for the following LSU students:

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|-------------------------------|--------------------------------|
| J. Gardner Eager (2020-2021) | Experimental Statistics |
| Dongran Zhao (2020-2021) | Experimental Statistics |
| Xiaochen Zhang (2018-2021) | Oceanography (Minor Professor) |
| Md Hasan (2020-2022) | Textiles TAM (Minor Professor) |
| Baoling Wang (2019-2020) | Experimental Statistics |
| Matthew Blanchard (2018-2021) | Biology (Minor Professor) |
| Haixue Shen (2018-2019) | Experimental Statistics |
| Xiuxuan Sun (2017-2018) | Experimental Statistics |

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| Kelin Wang (2018-2020) | Experimental Statistics |
| Haoran Liu (2018-2010) | Experimental Statistics |
| Xinji Zhu (2018-2019) | Experimental Statistics |
| Ryan Ardoin (2018-2021) | Food Science (Minor Professor) |
| Sho Farnsworth-Pinkerton (2018) | Geology |
| Guannan Song (2018-2020) | Experimental Statistics |
| Kai Wang (2018-2019) | Experimental Statistics |
| S M Fijul Kabir (2018-2019) | Textiles and Design (Minor Professor) |
| Dario Bonaretti, Ph.D. (2017-2018) | ISDS (Minor Professor) |
| Justin Guice, Ph.D. (2017-2018) | Nutrition and Food Science (Minor Professor) |
| Elizabeth Keller, Ph.D. (2017-2018) | Oceanography (Minor Professor) |
| Pengfei Pan (2016-2018) | Experimental Statistics |
| Arash Taghinezhad, Ph.D. (2015-2017) | Civil Engineering (Minor Professor) |
| Kristy Capelle, M.S. (2016-2017) | Renewable Natural Resources |
| Chen Wang (2016-2017) | Experimental Statistics |
| Xiuxuan Sun (2016-2017) | Experimental Statistics |
| Xue Wen (2016-2017) | Experimental Statistics |
| Uttam Bhattarai (2016) | Experimental Statistics |
| Yunjiao Xie (2015-2016) | Experimental Statistics |
| Garrett Ordner (2015-2017) | Experimental Statistics |
| David Reeves, M.S. (2013-2018) | Oceanography and Coastal Studies |
| Adam Elder, Ph.D. (2015-2017) | Education (Minor Professor) |
| Tess Danielson, M.S. (2015-2016) | Oceanography |
| Binod Acharya, M.S. (2015-2017) | Entomology (Minor Professor) |
| Chen, Yuwu (2015-2016) | Experimental Statistics |
| Jie Chen, Ph.D. Dual degree (2015-2017) | Entomology and MAppStat |
| Mathew Faldyn, M.S. (2015) | Biology (Minor Professor) |
| Renee Lastrapes, Ph.D. (2014-2015) | Education (Minor Professor) |
| Watheq Al-Mudhafar, Ph.D. (2014-2015) | Petroleum Engineering |
| Katherine Robinson, Ph.D. (2014-2016) | Education (Minor Professor) |
| Karen Bascom, Ph.D. (2014-2018) | Biology (Minor Professor) |
| ChinChi Liu (2013-2014) | Experimental Statistics |
| Zheng Xue (2013-2014) | Experimental Statistics |
| Fei Xia (2013-2014) | Experimental Statistics |
| Parichehr Saranjampour (2013-2015) | Environmental Science |
| Yanling Meng, M.S. (2012-2013) | Biological Sciences (Minor Professor) |
| Carol Massarra, Ph.D. (2013-2016) | Engineering Science (Minor Professor) |
| Ryan Munnelle M.S. (2013-2014) | Oceanography (Minor Professor) |
| Damir Torrico, Ph.D. (2013-2014) | Food Science (Minor Professor) |
| Hilary Glen, M.S. (2013-2014) | Oceanography (Minor Professor) |
| Puspa Adhikari (2013-2014) | Engineering |
| Zi Jia, Ph.D. (2012-2014) | Finance |
| Stewart Bobbitt (2012-2014) | Experimental Statistics |
| Meredith Shapiro (2012-2014) | Experimental Statistics |
| Jing Li (2012-2014) | Experimental Statistics |
| Mahesh Pandit (2012-2014) | Experimental Statistics |
| Gary Decossas (2012-2014) | Experimental Statistics |
| Shuyu Xu (2012-2013) | Experimental Statistics |
| Todd Langland, M.S. (2012-2013) | Oceanography (Minor Professor) |
| Jay Dieterich, M.S. (2012-2013) | Oceanography (Minor Professor) |
| Britney Schwartzkopf, M.S. (2012-2013) | Oceanography (Minor Professor) |
| Erin Walden, M.S. (2011-2012) | Geology and Geophysics |

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| Grace Harwell (2012-2013) | Oceanography and Coastal Studies |
| Ying Guan (2012-2013) | Experimental Statistics |
| Christopher Peters (2011-2013) | Experimental Statistics |
| Mathew Kupchik (2011-2012) | Experimental Statistics |
| Hugues Beaufriere (2011-2013) | Veterinary Medicine (Minor Professor) |
| Melissa Hedges, Ph.D. (2010-2012) | Oceanography and Coastal Studies |
| Wen Tang (2011-2012) | Experimental Statistics |
| Quan Tang (2011-2012) | Experimental Statistics |
| Shaofeng Pei (2011-2012) | Experimental Statistics |
| Wenting Xie (2011) | Experimental Statistics |
| Chelsea Deroche, M.S. (2010-2011) | Experimental Statistics |
| Quan Tang, Ph.D. (2009-2010) | Geography (Minor Professor) |
| Edward Castaneda, M.S. (2006-2010) | Oceanography |
| Michael Zanovec, Ph.D. (2009-2010) | Human Ecology (Minor Professor) |
| TaeEung Kim, Ph.D. (2009-2010) | Kinesiology (Minor Professor) |
| Rakesh Godara, M.S., Ph.D. (2009) | Experimental Statistics, Agronomy |
| Jian Xu (2009). | Experimental Statistics |
| Tao Zhang (2008-2009) | Kinesiology (Minor Professor) |
| Christie Landry, Ph.D. (2008-2009) | Pathobiological Sci, Vet School (Minor Professor) |
| Thomas Barnett, M.S. (2008-2009) | Experimental Statistics |
| Padmanava Dash, Ph.D. (2006-2008) | Oceanography |
| Ryan Machtmes, M.S. (2007-2008) | Experimental Statistics |
| Ryan Langlois, M.S. (2007) | Experimental Statistics |
| Michael Zanovec, M.S. (2007) | Human Ecology |
| Lorna Putnam, M.S. (2005-2007) | Oceanography |
| Jeffrey Burton, M.S. (2006-2007) | Experimental Statistics |
| Nan Jiang, M.S. (2006-2007) | Human Ecology |
| Mikel Wijayasuriya, M.S. (2006-2007) | System Science |
| Sit Yee Kong, M.S. (2006-2007) | Experimental Statistics |
| Yang Qin, M.S. (2005-2006) | Experimental Statistics |
| Rania Mekary, M.S. (2003-2004) | Experimental Statistics |
| Erik Johnson, M.S. (2005-2006) | RNR/ Wildlife (MinorProfessor) |
| Andrea Turriciano, M.S. (2004) | Civil Engineering |
| Sangeeta Singh, M.S. (2002-2004) | Experimental Statistics |
| Zhengyuan Wang, Ph.D. (2004) | Biological Sciences |
| Fengming Tang, Ph.D. (2004) | Industrial Engineering |
| Haren Ghosh, Ph.D. (2004) | Marketing |
| Saara DeWalt, Ph.D. (1998-2003) | Biological Sciences |
| Michelle Greene, M.S. (2003-2005) | Oceanography and Costal Studies |
| Muwen Zheng, M.S. (2002-2004) | Experimental Statistics |
| Wei Li, M.S. (2002) | Forestry |
| Robert Jones, M.S. (1998-2002) | Oceanography and Coastal Sciences |
| Xiaobing Fang, M.S. (2002) | Experimental Statistics |
| Shufang Liu, M.S. (2002) | Experimental Statistics |
| Katherine Wheelock, M.S. (2002) | Oceanography and Coastal Sciences |
| Gregg Snedden, Ph.D. (2003) | Oceanography and Coastal Sciences |
| Yanqi Li, M.S. (2002) | Experimental Statistics |
| Mark Stead, M.S. (2002) | Oceanography and Coastal Sciences |
| Binru Huang, M.S. (2001) | Experimental Statistics |
| Siewyong Mah, M.S. (2000) | Food Science |
| Na Hua, M.S. (2000) | Food Science |
| Albert Lefort, M.S. (2000-2001) | Forestry |

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| Daniel Moiasi, Ph.D. (2000-2002) | Biological and Agricultural Engineering |
| Jianlin Wang, M.S. (2000-2001) | Experimental Statistics |
| Weizhi Zhao, M.S. (2000-2002) | Experimental Statistics |
| Z. Li, M.S.,M.S. (2000-2002) | Experimental Statistics |
| Weizhi Zhao, M.S. (1999-2001) | Experimental Statistics |
| Robert Lane, Ph.D. (1999-2001) | Oceanography and Coastal Sciences |
| Hongzia Zhu, Ph.D. (1999-2001) | Agronomy |
| Agron Callaku, M.S. (1999) | Experimental Statistics |
| Nancy Walters, M.S. (1998) | Forestry, Wildlife and Fisheries |
| Nora Lane, M.S. (1998) | Experimental Statistics |
| Changren Weng, M.S. (1998) | Experimental Statistics |
| Andre Breazna, M.S. (1997) | Experimental Statistics |
| Dan Teodorescu, M.S. (1997) | Experimental Statistics |
| Aurora Breazna, M.S. (1997) | Experimental Statistics |
| Ovidu Romanoschi, M.S. (1997) | Experimental Statistics |
| Bernard Parresol, Ph.D. (1995-1998) | Forestry |
| Weicheng Hu, Ph.D. (1996-1998) | Bio. Agr. Engineering (Minor Professor) |
| Eyler Coates, M.S. (1993-1998) | Industrial Engineering |
| Jonathan Day, M.S. (1997) | Wildlife Science (Minor Professor) |
| Vicky S.-Horng Hwang M.S. (1997) | Experimental Statistics |
| Keith Poche, M.S. (1997) | Experimental Statistics |
| Theodore Blahnik, M.S. (1997) | Coastal Ecology |
| Clifford Baiamonte, M.S. (1996) | Experimental Statistics |
| Kun Lian, Ph.D. (1993-1995) | Engineering Science |
| Rong Ji, M.S. (1992-1993) | Experimental Statistics |
| Chandra Vellala, M.S. (1992-1994) | Industrial Engineering |
| Zhihai Zheng, M.S. (1992) | Experimental Statistics |
| Katherine Taylor, Ph.D. (1992) | Botany |
| Jigang Liu, Ph.D. (1991-1994) | Computer Science (Minor Professor) |
| Ronald Gouguet, Ph.D. (1990-1992) | Oceanography and Coastal Science |
| Fides Rosario Goloso, M.S. (1990) | Experimental Statistics |
| Jeffrey N. Jockman, M.S. (1990) | Experimental Statistics |
| Vladimir K. Degan, M.S. (1989-1990) | Entomology |
| Sang B. Lee, Ph.D. (1989-1992) | Computer Science (Minor Professor) |

Served on the following committees as the International representative

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|------------------------|---|
| Jocelyn Chauvet (2019) | Institute Montpellierian Alaxander Grothendieck, France |
| Nikolous Umlauf (2019) | University of Innsbruck, Austria |

Served on the following committees as the Dean's representative, LSU Graduate School:

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|----------------------------|--------------------------|
| Sarah Allred (2018-2020) | Mathematics |
| Noah Winslow (2018-2019) | Mathematics |
| Wuyi Yu (2015-2016) | Computer Science |
| Chris Claypool (2015-2016) | ISDS |
| Di Lin (2011) | Computer Science |
| Hiroki Uematsu (2011) | Agricultural Economics |
| Alexandra Gruszka (2009) | Mathematics |
| Vamsi Paruchuri (2005) | Computer Science |
| Laura DeLaune (2002-2004) | Human Resource Education |
| David L. Reed (2000) | Zoology |

| | |
|--------------------------------------|------------------------|
| Salvador Nieto Sanchez (1997) | Industrial Engineering |
| Shelly Stubbs, Ph.D. (1995) | Computer Science |
| Priyalal Kulasinghe, Ph.D. (1992) | Electrical Engineering |
| Christopher J. Schwehm, Ph.D. (1990) | Electrical Engineering |
| Weon Ho Kim, Ph.D. (1989-1990) | Chemical Engineering |
| Jong Hoon Chung, Ph.D. (1989) | Engineering Science |

Service Roles

International

- Member of scientific committee for the 34th *International Workshop on Statistical Modelling*, Guimarães, Portugal, 2018-9.
- Member of Executive Committee of the *Statistical Modelling Society*, 2008-2019.
- President (Chair) of the *Statistical Modelling Society*, 2007-2008.
- Member of scientific committee for the *International Workshop on Statistical Modelling*, Linz, Austria, 2015.
- Member of scientific committee for the *International Workshop on Statistical Modelling*, Valencia, Spain, 2011.
- Member of scientific committee for the *International Workshop on Statistical Modelling*, Barcelona, Spain, 2007.
- Member of executive board of the *Statistical Modelling Society*, 2003-present.
- Member of board of trustees for the *International Workshop on Statistical Modeling*, 1998-2008.
- Member of scientific committee for the *International Workshop on Statistical Modeling*, 1991-1998.

National

- ENAR Biometrics Society Local Organizing Committee (2009-2010).
- ENAR Regional Advisory Board (2003-2005).
- Secretary/Treasurer, American Statistical Association Louisiana Chapter (1993-1994).
- President, American Statistical Association Louisiana Chapter (1992-1993).
- Vice President, American Statistical Association Louisiana Chapter (1991-1992).
- Council Representative, American Statistical Association Louisiana Chapter (1990-1993).

University

- Provides volunteer statistical consulting, through the Department of Experimental Statistics' Consulting Lab, to a wide range of professors, students and professionals since 1988. Typically, Dr. Marx designates approximately 2 to 5 hours weekly to consult individuals on experimental design, modeling aspects and interpretation of output in an effort to promote sound scientific research and to initiate collaborative efforts.
- College of Agriculture Promotion and Tenure Committee. (2008-2012, 2017).
- College of Agriculture Faculty Policy Committee (2002-2009) and (1993-1994).
- College of Agriculture Courses and Curricula Committee. (1990-1993) and (2008-2012).
- Participating Faculty, with Dr. J.C. Pine, LSU Department of Agricultural Engineering, in the Society of Safety Engineers (1990-1991).
- Initiated an undergraduate statistics course for LSU Department of Advertising (1990).

Departmental

- Graduate Advisor for the Department of Experimental Statistics (2007-present).
- Representative for the Physical Science Research Development Group (2008-2014).
- Chair of Experimental Statistics Undergraduate Minor Curricula Committee (1999).
- Department of Experimental Statistics Courses and Curricula Committee (1995-1997).

Chair of MAPStat Comprehensive Exam for Spring (1994), AY (1996-97).
College of Agriculture Courses and Curricula Committee (1993-1994); (2008-2011).
Coordinator of LSU Experimental Statistics Seminar Series (1992-1994).
Full member of the graduate faculty, LSU Department of Experimental Statistics.
Master's of Applied Statistics written exam committee. Spring 1989, Spring 1991, Summer 1991, Spring 1992, Fall 1992; Spring 1993.
Student Recruitment Committee (1990-1994).
Interviewer for potential new faculty at the Joint American Statistical Association professional meetings, Anaheim, CA. (1990).
Committee member for poster display at the Joint American Statistical Association professional meetings, Washington, D.C. (1989).

Lead Organizer: 13th International Workshop on Statistical Modeling, New Orleans, July 1998

Responsible for all grant writing, choosing & contacting invited speakers, refereeing contributed papers, editing the proceedings volume, constructing plenary session, tutorial sessions, conference dinner, hotel and conference room arrangements, coordination of professional vendors, advertisement, among many other efforts.

Organized a session of papers for the following professional meetings

Southern Regional Council on Statistics Summer Research Conference (1993). Galveston, TX.
Organized a session on *Generalized Linear Models*.

Chaired sessions of papers at the following professional meetings

Thirty-fourth International Workshop on Statistical Modeling (2019). Guimaraes, Portugal.
Thirty-second International Workshop on Statistical Modeling (2017). Groningen, Netherlands.
Thirty-first International Workshop on Statistical Modeling (2016). Rennes, France.
Thirtieth International Workshop on Statistical Modeling (2015). Linz, Austria.
Twenty-ninth International Workshop on Statistical Modeling (2014). Gottingen, Germany.
Twenty-eighth International Workshop on Statistical Modeling (2013). Palermo, Italy.
Twenty-seventh International Workshop on Statistical Modeling (2012). Prague, Czech Republic
Twenty-sixth International Workshop on Statistical Modeling (2011). Valencia, Spain.
Twenty-fifth International Workshop on Statistical Modeling (2010). Glasgow, Scotland.
Twenty-fourth International Workshop on Statistical Modeling (2009), Ithaca, NY.
Twenty first International Workshop on Statistical Modeling (2006), Galway, Ireland.
Twentieth International Workshop on Statistical Modeling (2005). Sydney, Australia.
Seventeenth International Workshop on Statistical Modeling (2002). Chania, Greece.
Sixteenth International Workshop on Statistical Modeling (2001). Odense, Denmark.
Twelfth International Workshop on Statistical Modeling (1997). Biel, Switzerland.
Eleventh International Workshop on Statistical Modeling (1996). Orvieto, Italy.
Tenth International Workshop on Statistical Modeling (1995). Innsbruck, Austria.
Ninth International Workshop on Statistical Modeling (1994). Exeter, England.
Joint American Statistical Association Meetings (1993). San Francisco, CA.
Eighth International Workshop on Statistical Modeling (1993). Leuven, Belgium.
GLIM 92 & 7th International Workshop on Statistical Modeling (1992). Munich, Germany.
Sixth International Workshop on Statistical Modeling (1991). Utrecht, The Netherlands.

Membership in professional societies

International Statistical Institute
Statistical Modelling Society
American Statistical Association
American Statistical Association, Louisiana Chapter

Workshops attended for professional improvement

- Analysis of Ordinal Categorical Data. Taught by Alan Agresti. Sponsored by the IWSM 20, Linz, Austria (2015).
- Generalized Linear Additive Models for Location Scale and Shape Parameters (2008).
Sponsored by the IWSM 23, Utrecht, The Netherlands.
- Statistics for Microarrays. Taught by Ernst Witt, Lancaster University. Sponsored by the IWSM 21, Galway Ireland (2006).
- Longitudinal Data Analysis. Taught by G. Verbke and G. Molenberghs. Sponsored by ASA Joint Meetings, San Francisco (2003).
- Analysis of Repeated Categorical Measurement Data. Taught by Alan Agresti. Sponsored by ASA Joint Meetings, San Francisco (2003).
- Functional Data. Taught by Mary Lindstrom, University of Wisconsin- Madison. Sponsored by the 2001 ENAR Meetings, Arlington, VA.
- Using the Cox Model for Correlated or Repeated Events. Taught by Terry Therneau, Mayo Clinic. Sponsored by the 1999 Joint American Statistical Assoc. Meetings, Balt., MD.
- Interactive Data Analysis Using *SAS/INSIGHT* Software. Taught by SAS Institute Inc., Cary, NC. Sponsored by the 1994 Joint American Statistical Assoc. Meetings, Toronto, Ont.
- Nonlinear Mixed Effects Models for Clustered Data. Taught by D.M. Bates & M.J. Lindstrom, University of Wisconsin, Madison. Sponsored by the 1993 Joint American Statistical Association Meetings, San Francisco.
- Modern Regression Methods in *S-PLUS*. Taught by StatSci, Seattle, Washington. Sponsored by the Joint American Statistical Association Meetings in Boston, MA, August, 1992.
- Categorical Data Analysis. Taught by C.C. Clogg, Penn State University. Sponsored by LSU Life Course and Population Studies, December 14-15, 1988.

Public Service

- Presented *A Gentle Introduction to Statistics* to the International School (2016, 2017). Baton Rouge, LA.
- Presented *A Gentle Introduction to Statistics* to the Louisiana School for the Math, Sciences and Arts (2014, 2015). Natchitoches, LA.
- Taught an introduction to AP Statistics at McKinley Gifted High School and Baton Rouge Magnet High School (2014, 2015).
- Co-authored eight invited talks with Drs. de Hoop and Pine, LSU, at various locations in Louisiana (Alexandria, DeRidder, Winnfield, Natchitoches, Mansfield, Hammond) on *Logging Injuries in Louisiana: Nature and Trends* as part of the Logging Safety Training Program of the Louisiana Forestry Association (1992-1994).
- Chairperson of judging panel for American Statistical Association Special Award. International Science and Engineering Fair, Biloxi, MS. (1993).
- Prepared and delivered 4 three-hour volunteer presentations on statistics, mathematics probability and use of a scientific calculator to prepare safety workers for the *Board of Certified Safety Professionals* exam (1991).
- Volunteer service to Department of Environmental Quality Contract #25500-88-05, Baton Rouge, LA. Prepared report on trial burn data (1988).

Some Statistical Consulting Experience

- ***Kean Miller, LLP**, Baton Rouge, LA (2020). Hired as statistical expert for Administrative Court to verify and prepare and expert report for alternative estimates of Medicare overpayment/extrapolation due to alleged fraud.

- HoffossDevall, L.L.P.**, Lake Charles, LA (2019-2020). Hired as a statistical expert to analyses and perform probability calculations related to severe head injury and safety belt use.
- Breazeale, Sachse, and Wilson, L.L.P.**, Baton Rouge, LA (2019). Hired for statistical analyses of the random allotment of judges to panels for the First Circuit Court of Appeals, Louisiana.
- Carleton Hebert Wittenbrink & Shoenfelt LLC**, Baton Rouge, LA (2019-2020). Hired as a statistical expert to prepare a statistical report and probability calculations on racial disparity related to termination of employment at ExxonMobil, Louisiana.
- Kleinpeter, Swartzberg L.L.P.**, Baton Rouge, LA (2019). Hired as statistical expert related to a wrongful death case involving a major pharmacy and rare forms of Dementia. **Dechert, L.L.P.** Los
- Louisiana Department of Environmental Quality (LADEQ)**, Baton Rouge, LA (2016-2017). Hired as a statistical expert to model tolerance limits associated with total weight in tire recycling programs involving multiple sites across the state of Louisiana.
- McAfee and Taft, L.L.P.**, Tulsa, OK (2016). Hired as a statistical expert in a class action suit to estimated total contract damages in hospital insurance processing due to alleged violation of balanced billing statute class action suit.
- Kean Miller, LLP**, Baton Rouge, LA (2016). Hired as statistical expert to verify and prepare and expert report for alternative estimates of Medicare overpayment/ extrapolation due to alleged fraud.
- *Gunn and York, L.L.P.**, Baton Rouge, LA (2015-2016). Hired as a statistical expert in a suit to estimated and evaluate sampling and extrapolation of sales and use tax calculations for Shintech Louisiana. *Shintech Louisiana, LLC v. Parish of Iberville, et al No.*, BTA Docket. L00031, Louisiana Board of Tax Appeals, Local Tax Division. Expert to give Deposition Testimony, and give “live” Testimony, in person, at the Louisiana Board of Tax Appeals.
- *Willeford Law Firm, L.L.P.**, New Orleans, LA (2012-2015). Hired as a statistical expert in a suit to estimate the probability and likelihood associated with joint occurrence of rare neuropathies in a household. *Richard Rubin and Mary Rubin vs. The American Insurance Company, Paramount Remodeling & Roofing Corp., First Financial Insurance Company, and C&G Construction of Louisiana, Inc.* 24th Judicial District Court, Parish of Jefferson, Louisiana, Number 577-750, Division “N”. Testified in court via deposition and video deposition.
- Breazeale, Sachse, and Wilson, L.L.P.**, Baton Rouge, LA (2015-2016). Hired as a statistical expert in a class action suit to estimated total contract damages in insurance processing due to alleged violation of balanced billing statute class action suit.
- Hood Container (formerly KPAQ) Industries, LLC**, St. Francisville, LA (2013-present). Hired as an independent statistical consultant to perform ground water monitoring analysis, instruct employees in statistics & coordinate a Statistical Process Control (SPC) to meet the U.S. Environmental Protection Agency.
- Chris Whittington, Attorney at Law**, Baton Rouge, LA (2013). Hired as statistical expert to the disparity among penalties involving alleged wrongful conduct among Pharmacists.
- *Squire, Sanders & Dempsey (US), LLP**, Habeas proceeding for Albert Woodfox vs. Burl Cain *et al.*, United States District Court, Louisiana Middle District. Hired by Petitioner as statistical expert to prepare a statistical report and probability calculations on racial disparity related to the selection of Grand Jury Forepersons in West Feliciana Parish. 2012: *Albert Woofox vs. Burl Cain, Warden of the Louisiana State Penitentiary, et al.* Civil Action No. 3: 06-00789-JJB-CN. Case ruled in favor of petitioner by Federal Judge Brady. Testified in court (in person) and through deposition.
- Thomas Lockwood, Attorney at Law**, Baton Rouge, LA (2011). Hired as statistical expert to verify and recalculate Medicare overpayment/ extrapolation due to alleged fraud.
- *Alva Ralph Hixson III**, Civil Action No. 09-CY-3949; *Alva Ralph Hixson III v. Houston Independent School District et al.* Hired by the plaintiff, Alva Hixson III as a statistical

consultant to evaluate age discrimination data and to provide a deposition related to the case, during May 2011. Testified in court by deposition.

Breazeale, Sachse, and Wilson, L.L.P., Baton Rouge, LA (2005-2011).

Hired for statistical confirmation and validity of data/ analysis for class action suit against Cosmar Manufacturing.

Exide Corporation, Cannon Hollow, MO (1990-present).

Hired as an independent statistical consultant to perform ground water monitoring analysis, instruct employees in statistics & coordinate a Statistical Process Control (SPC) to meet the U.S. Environmental Protection Agency and Ford Motor Company's specifications.

Kean, Miller, Hawthorne, D'Armond, McCowan, and Jarman, L.L.P. Baton Rouge, LA (2005).

Prepared statistical report to define a class among Mississippi river barge damage.

Andre LaPlace and Robert Monahan, Attorneys at Law, Baton Rouge, LA (2005).

Hired as statistical expert to evaluate the statistical content and validity of an affidavit in the Liberty Shell Inc. v. Shell Oil Company.

Kleinpeter, Swartzberg and Stevens, L.L.P., Baton Rouge, LA (2000).

Hired by Bob Kleinpeter, Attorney at Law, regarding Wingfield/Murray case. Prepared testimony, programmed, and applied Bayes rule using sensitivity, specificity and prevalence to estimate the positive predictive value of the emit 1 drug test.

Georgia Pacific Paper, Port Hudson, LA (2000).

Performed data mining, developed statistical models, and delivered reports regarding potential variables causing paper pulp breaks during production.

***Grodner and Associates, L.L.P.**, Baton Rouge, LA (1998).

Hired to serve as a statistical expert witness and consultant for plaintiffs Olan Berthelot et al., who allege unlawful lindane pesticide exposure to grade school children and other persons on the school grounds by defendant Randy Springs, Assumption Parish, 23rd Judicial District Court, 22634-B. Testified in court in person.

University of California, San Francisco, Center for AIDS Prevention Studies (1994-1997).

Hired as a statistical consultant to provide consultation on adjustments and development of software related to the complex survey design features on the Family of AIDS Behavioral Survey and provide consultation on analyses on related papers.

San Francisco General Hospital, San Francisco, CA (1995).

Data management and statistical analysis of Norplant birth control study.

Kleinpeter, Schwartzberg and Stevens, L.L.P., Baton Rouge, LA (1994-1996).

Hired to serve as a statistical expert witness and consultant for plaintiffs C.J. Wright et al., who allege racial discrimination by defendants R. Bennett et al., Richfield Hotel Mgmt., and Gibbons Co., Inc. Suit no. 401550, Division H, 19th Judicial District Court.

University of California, San Francisco, OBGYN, SF General Hospital (1995-1996).

Hired as a statistical consultant to provide consultation on logistic regression models, statistical summaries and data management for the comparisons of Norplant birth control to use of condoms and oral contraceptives for teens in the Bay area.

T.L. James and Co., Inc., Pineville, LA, Summer 1990.

Hired as an independent statistical consultant to model hard & soft wood yields.

Other Professional Experience

Statistics.com, Arlington, VA. 2007-Present.

- Developed and taught online courses in Categorical Data Analysis and Smoothing.

General Foods Corporation, Applied Mathematics, Tarrytown, NY, Summer 1987.

- Hired as an independent statistical consultant to solve designated statistical problems.
- Developed writing skills

Corning Glass Works, Process Engineering, Corning, NY, Summer 1986.

- Designed statistical experiments to determine & optimize effects of variables on quality.
- Assisted in implementation of statistical quality and process control procedures to improve quality and reduce cost.
- Gained experience in applying various analyses to missing data.

Ford Motor Credit Company, Operations Research, Dearborn, MI, Summer 1985.

- Helped to statistically develop the Credit Risk Rating Guide for FMCC.
- Organized and summarized two employee surveys for a steering committee.

Ford Motor Company, Ford Rouge Plant, Dearborn, MI, Summer 1978.

- Major assembly of automobile frames; fuel tank & piston machinist.

Personal Data

Married. Two children (5/97 and 2/99). Enjoys: running/fishing/skiing/biking/traveling.

Birth date: 3/29/60. Birthplace: Detroit, Michigan.