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**EDUCATION**

Ph.D. Statistics, State University of New York at Buffalo. 1972.  
Advisor: James M. Dickey

B.S. Mathematics, Purdue University. 1967.

**PROFESSIONAL EXPERIENCE**

1987-Present Professor  
Department of Statistics and Computer Science  
West Virginia University.

1992-Present Adjunct Professor  
Department of Community Medicine  
Robert C. Byrd Health Sciences Center, West Virginia University

1990-1991 Senior Fullbright Scholar  
Dokuz Eylul University, Izmir , Turkey.

1982-1986 Associate Professor  
1979-1981 Assistant Professor  
Department of Statistics and Computer Science  
West Virginia University.

1977-1979 Associate Professor  
1973-1977 Assistant Professor  
Department of Operations Research and Statistics  
Orta Dogu Teknik Universitesi, Ankara, Turkey.

1972-1973 Visiting Assistant Professor  
Department of Applied Mathematics and Statistics  
State University of New York at Stony Brook.

1967-1972 Research Assistant  
Department of Statistics  
State University of New York at Buffalo.

1966-1968  
(Summers) Mathematician  
Consolidated Papers Inc.  
Wisconsin Rapids, Wisconsin.

## **PUBLICATIONS**

Gunel, Erdogan and James Dickey, "Bayes Factors for Independence in Contingency Tables", *Biometrika* 61; pp.545-557, 1974.

Gunel, Erdogan, "An Essay on Bayesian Methods", *Monograph*, pp. 1-110, 1976.

Aral, Sevgi; Necdet Atabarut, Halim Dogrusoz, Hamit Fisek, Erdogan Gunel, Sibel Guven, Ibrahim Levent, Savas Ozatalay, Omer Saatcioglu, Mete Sirvanci, and Yuksel Uckan, "Manpower Planning", Research Reports (8 Volumes); *Systems Sciences Research Institute Report*, 1977.

Dickey, James and Erdogan Gunel, "Bayes Factors from Mixed Probabilities", *The Journal of the Royal Statistical Society, B*, 40, pp.43-46, 1978.

Gunel, Erdogan, "Bayes Factors in Three-Way Contingency Tables", *Communications in Statistics, Part A: Theory and Methods*, Vol. 11, No. 8, pp 911-931, 1982.

Gunel, Erdogan, "Bayesian Analysis of the Multinomial Model for a Dichotomous

Response with Nonrespondents", *Communications in Statistics, Part A: Theory and Methods*, Vol. 13, No. 6, pp. 737-751, 1984.

Gunel, Erdogan and John Atkins, "Baycat: Bayes Factors for Categorical Data Analysis", *The American Statistician*, Vol. 38, No. 2, pp. 1156, 1984.

Smith, Philip and Erdogan Gunel, "Practical Bayesian Approaches to the Analysis of a 2 x 2 Contingency Table with Incompletely Categorized Data", *Communications in Statistics, Part A: Theory and Methods*. Vol. 13, No. 16, pp. 1941-1963, 1984.

Gunel, Erdogan, "On the Design of Randomized Response Sampling Plan", *Proceedings of the Survey Research Methods Section, American Statistical Association*, pp. 457-459, 1985.

Smith, Philip, Sung Choi and Erdogan Gunel, "Bayesian Analysis of a 2x2 Contingency Tables with Both Completely and Partially Cross-Classified Data", *Journal of Educational Statistics*, Vol. 10, No. 1, pp. 31-43, 1985.

Gunel, Erdogan, "A Bayesian Comparison of Randomized and Voluntary Response Sampling Models", *Communications in Statistics, Part A: Theory and Methods*, Vol. 14, No. 10, pp. 2411-2435, 1985.

Gunel, Erdogan, "A Noninformative Trial in Bernoulli Trials", *Proceedings of the Biopharmaceutical Section, American Statistical Association*, pp. 52-54, 1986.

Gunel, Erdogan, "A Note on the Posterior Expectation", *Communications in Statistics, Part A: Theory and Methods*, Vol. 15, No. 4, pp. 1337-1345, 1986.

Gunel, Erdogan, "Deciding on Manpower Needs Using Expert Opinions", *Journal of Information and Optimization Sciences*, Vol. 8, No.1, pp. 1-9, 1987.

Gunel, Erdogan, "Bernoulli Trials and the Weight of Evidence in Favor of a Null Hypothesis", *Biometrika*. Vol. 74, No. 2, 1987.

Gunel, Erdogan and Daniel Chilko, "Estimation of Parameter  $n$  of the Binomial Distribution", *Communications in Statistics, Part B: Simulation and Computation*, Vol 18 , No 2 , pp 537-552, 1989.

Jaraiedi, Majid, Wafik Iskandar and Erdogan Gunel, "The Role of Quality Assurance in a Concurrent Engineering Environment " *Proceedings of Annual International Industrial Economics Conference*, pp 831-835, 1989.

Naresh Gupta, B. Chandramouli. Jane Maloof, Erdogan Gunel " Estimating Risk of Malignancy in Solitary Pulmonary Nodules ( SPN's ) Using PET-FDG Imaging" *Proceedings of the 42nd Annual Meeting of Nuclear Medicine*. Vol. 36, No. 5. pp. 94-95, 1995.

Gunel Erdogan and Stanley Wearden ."Bayesian Estimation and Testing of Gene Frequencies" *Theoretical and Applied Genetics, International Journal of Breeding Research and Cell Genetics*. Vol. 91, No. 3 , pp. 534-543. 1995

Naresh Gupta, B. Chandramouli. Jane Maloof, Erdogan Gunel, Mathis Frick " Estimating the Probability of Malignancy in Solitary Pulmonary Nodules Using PET-FDG Imaging" *The Journal of Nuclear Medicine*. Vol 37, No 6. pp. 943-948, 1996.

Mei-lin Wang, Lloyd McCabe, John L. Hankinson, Mohammad Shamssain, Erdogan Gunel, N. LeRoy Lapp, Daniel E. Banks. " Longitudinal and Cross Sectional Analyses of Lung Function in Steel Workers. *American Journal of Respiratory and Critical Care Medicine*. Vol 153. pp. 1907-1913, 1996.

Morise Anthony P., George A. Diamond, Robert Detrano, Marco Bobbio, Erdogan Gunel. " The Effect of Disease Prevalence Adjustments on the Accuracy of a Logistic Prediction Model " *Journal of Medical Decision Making*. Vol 16, No 2. pp. 133-142, 1996.

Rose William D., Julia E. Martin, F. Matthew Abraham, Rebecca L. Jackson, Janet M. Williams, Erdogan Gunel " Calcium, Magnesium, Phosphorus: Appropriateness of Emergency Department Testing " *Academic Emergency Medicine*. Vol 4, No 6, pp. 559-563, 1997.

Stamatakis Mary K., Patricia G. Pecora, Erdogan Gunel " Factors Influencing Adherence in Chronic Dialysis patients with Hyperphosphatemia. *Journal of Renal Nutrition*. Vol 7, No 3, pp 144-148, 1997 .

Rajakumar Kumaravel, Raj Sheth, John Bodensteiner, Erdogan Gunel " A study to Assess the Prevalence of Malnutrition Amongst Developmentally Delayed Children " *Conference Proceedings*. 1997.

Sarwari Arif R., Melanie Fisher, Rashida Khakoo, Erdogan Gunel. "Malaria in West Virginia: Forty Cases Seen at West Virginia University Hospital" .*West Virginia Medical Journal*. Volume 94, No. 3, pp 137-142. 1998.

Peter Ngan, Cynthia Yiu, Annie Hu, Stephen Wei, Erdogan Gunel " Cephalometric and Occlusal Changes Following Maxillary Expansion and Protraction " *European Journal of Orthodontics*, Vol.20, pp 237-254, 1998.

Arif R. Sarwari, Melanie Fisher, Rashida Khakoo, Erdogan Gunel. "Malaria in West Virginia: Forty Cases Seen at West Virginia University Hospital" .*West Virginia Medical Journal*. Volume 94, No. 3, pp 137-142. 1998.

Rajakumar Kumaravel, Martin Weisse, Angela Rosas, Erdogan Gunel, Lee Pyles, William Neal, Arpy Balian, Stanley Einzig " Comparative Study of Clinical Evaluation of Heart Murmurs by General Pediatricians and Pediatric Cardiologists. *Clinical Pediatrics*, Vol. 38, pp 511-518, 1999.

Imad Shammaa, Peter Ngan, Hera Kim, Elizabeth Kao, Marcia Gladwin, Erdogan Gunel, Christopher Brown. " Comparison of Bracket Debonding Force Between Two Conventional Resin Adhesives and a Resin-Reinforced Glass Ionomer Cement: An in Vitro and in Vivo Study". *The Angle Orthodontist*, Vol. 69, No. 5, pp 463-469, 1999.

Hillowala Rummy, Roger Trent, Erdogan Gunel , Robert G. Pifer" Proposed Cephalometric Diagnosis for Osteogenic Obstructive Sleep Apnea (OSA): The Mandibular/Pharyngeal Ratio ". *The Journal Of Craniomandibular Practice*, Vol. 17, NO. 4, pp 280-288, 1999.

C. Ken Snannon, Erdogan Gunel "A Study of the Future Practice Location Intent of Family Medicine Residents in West Virginia". *West Virginia Medical Journal*. Vol. 95, No. 5, pp 261-264, 1999.

Gunel Erdogan, Janet Williams, Jian Yang " Prediction of Ankle Fractures". *Applied Statistical Science*, IV, pp 53-57, 1999.

Mei-Ling Wang, Erdogan Gunel, Edward Petsonk "Design Strategies for Longitudinal Spirometry Studies: Duration and Frequency of Testing". *American Journal of Respiratory and Critical Medicine* Vol. 162, pp 2134-2138, 2000.

Morise Anthony P., Robert Beto, Naresh Gupta, Erdogan Gunel. " Exercise QT Dispersion as an Independent Predictor of the Presence of Ischemia on Myocardial Perfusion Imaging". *Annals of Noninvasive Electrocardiology*, Vol 5, No. 3, 2000.

Nath Reese Charlotte, Shirley Theriot Sylvester, Van Yasek, Erdogan Gunel. " Development and Validation of a Literacy Assessment Tool for Persons With Diabetes. The Diabetes Educator. Vol 27, Number 6, pg 857-864, 2001.

Singh Harshinder, Vittorio Cortellessa, Bojan Cukic, Erdogan Gunel, V. Bharadwaj " A Bayesian Approach to Reliability Prediction and Assessment of Component Based Systems. " The Proceedings of the 12<sup>th</sup> Symposium on Software Reliability Engineering. Hong Kong Nov. 27-30. Pp 12-22, 2001.

Cortellessa Vittorio, Harshinder Singh, Bojan Cukic, Erdogan Gunel, V. Bharadwaj "Early Reliability Assessment of UML Based Software Models". The Proceedings of the Third International Workshop on Software and Performance. pp 302-309, 2002.

Smidts Carol, Bojan Cukic, Erdogan Gunel, Ling Li, Harshinder Singh, Lan Guo. " Software Reliability Corroboration" The Proceedings of the 27<sup>th</sup> Annual NASA/IEEE Software Engineering Workshop. December 2002.

Stamatakis K. Mary, Joy M. Schreiber, Douglas Slain, Erdogan Gunel "Vancomycin Administration During Dialysis with Low-Flux Polysulfone Membranes: Traditional Versus a Supplemental Dosage Regimen. The American Journal of Health-System Pharmacists, Vol. 60, pp 1564-1568, 2003.

Makela H. Eugene, William D. Cutlip, James M. Stevenson, Jason M. Weimer, Ehab A. Abdallah, Raja S. Akhtar, Ahmed S. Aboraya, Erdogan Gunel " Branded versus Generic Clozapine For Treatment of Schizophrenia.. The Annals of Pharmacotherapy. Vol. 37, pp 350-353, 2003

Cukic Bojan , Erdogan Gunel, Harshinder Singh, Lan Guo. " The Theory of Software Reliability Corroboration". IEICE Transactions on Information and Systems. Vol.E86-D,

No. 10, pp 2121-2129, 2003.

Summers Andrew, Peter Ngan, Elizabeth Kao, Jeffery Gilmore, Erdogan Gunel  
“ Comparison of Bond Strength Between a Conventional Resin Adhesive and a Resin-Modified Glass Ionomer Adhesive: An in Vitro and in Vivo Study. American Journal of Orthodontics and Dentofacial Orthopedics. Vol 126, Number 2, pp 200-206. 2004.

Sullivan Pamela, Elizabeth Sinz, Erdogan Gunel, Andrew Kofke “ A Retrospective Comparison of Remifentanyl vs Metaohexital for Anesthesia in Electroconvulsive Therapy”. Journal of ECT. Vol 20, Number 4, pp 219-224. 2004.

Matthew Ghiz, Peter Ngan, Erdogan Gunel “Cephalometric Variables to Predict Future Success of early Orthopedic Class III Treatment” American Journal of Orthodontics and Dentofacial Orthopedics. Vol 127, Number 3, pp 301-306. 2005

Claude Shannon, Helen Baker, Jodie Jackson, Abira Roy, Hilda Heady, Erdogan Gunel  
“Evaluation of a Required Statewide Interdisciplinary Rural Health Education Program: Student Attitudes, Career Intents and Perceived Quality” Education for Health. Vol 18, No. 3, pp 395-404. 2005

P.A. Dickerson, B.E. Lally, E. Gunel, D.L. Birkle, A.K. Salm. “ Early Emergence of Increased Fearful Behavior in Prenatally Stressed Rats”. Journal of Physiology and Behavior. Vol 86, pp 586-593. 2005.

Jackie, Peter Ngan, Erdogan Gunel “ Use of Conventional Tomography to Evaluate Changes in the Nasal cavity with Rapid Palatal Expansion” Accepted for publication in American Journal of Orthodontics and Dentofacial Orthopedics.

Nath C, Schmidt R, Gunel E. “Perceptions of Professionalism Vary Most with Educational Rank and Age” Journal of American Dental Education Association. Vol 70, No. 8, pp 825-833. 2006

Eugene Makela, Karen Moeller, Jennifer Fullen, Erdogan Gunel “Medication Utilization patterns and Methods of Suicidality in Borderline Personality Disorder” The Annals of Pharmacotherapy. Vol 40. Mo.1, pp 49-52, 2006.

Kraszpuska, Kraszpuski, Gunel E. “ Sport Training-The Modifier of Physical Development” Wychowanie Fizyczne i Sport, 456-459, 2007.

Carole Harris, Andrew Bradlyn, Jessics Coffman, Erdogan Gunel, Leslie Cottrell, ”BMI-based Body Size Guides for Women and Men: Development and Validation of a Novel Pictorial Method

to Assess weight-related Concepts” International Journal of Obesity. 2007. Vol.32, pp 336-342, 2008.

Vincent DelaGarza, James Arbogast, Erdogan Gunel “ Herpes Zoster (Shingles) Infections Associated with Increased Mortality in Older Persons. West Virginia Journal of Medicine, Vol 104, pp 22-24, 2008.

Mullins JM, Kao E, Martin C, Gunel E, Ngan P. Tooth whitening effects on bracket bond strength in vivo. American Journal of Orthodontics and Dentofacial Orthopedics, in press, 2008.

Ghiz MA, Ngan P, Kao E, Martin C, Gunel E . “ Effects of Sealant and Self-etching Primer on Enamel Decalcification: An in Vitro and in Vivo Study. Part II”. American Journal of Orthodontics and Dentofacial Orthopedics, in press, 2008.

S. Patel, J. Linberg, E. Gunel “ Modified Tarsal Rejection Operation for Congenital Ptose with Fair Levator Function” Submitted for publication

Ngan P, Shipley T, Kao EC, Martin CA, Gunel E. Effects of Argon Laser on Enamel Decalcification in vivo, IADR, 2007, New Orleans. Journal of Dental Research Vol.86 Special Issue A. Abstract #2418, 2007.

Palaisa, J, Martin C, Razmus T, Gunel E, Ngan P. Tomographic changes in nasal cavity with rapid palatal expander, AADR, Orlando, Abstract #0774, 2007.

Ngan P, Hamilton J, Martin CA, Bagby M, Tremont T, Gunel E. Individual preferences for profile attractiveness on two diagnostic techniques. Journal of Dental Research, Abstract #0964, 2008.

Kao EC, Hodnett S, Ngan P, Martin C, Gunel E. Remineralization potential of calcium phosphopeptide-amorphous calcium by confocal microscopy. Journal of Dental Research, Abstract #0107, 2008.

Prettyman C, O’Dell M, Ngan P, Gunel E. Stepwise regression model in predicting excessive mandibular growth. Journal of Dental Research, Abstract #0789, 2008.

Mullins JM, Kao E, Martin C, Gunel E, Ngan P. Tooth whitening effects on bracket bond strength in vivo. American Journal of Orthodontics and Dentofacial Orthopedics. Angle Orthodontist, Vol 79, No 4, pp 777-783, 2009.

Ghiz MA, Ngan P, Kao E, Martin C, Gunel E . “ Effects of Sealant and Self-etching Primer on Enamel Decalcification: An in Vitro and in Vivo Study. Part II”. American Journal of Orthodontics and Dentofacial Orthopedics, Vol 135, No 2, pp 206-213, 2009.

De-Latour TB, Ngan P, Martin C, Razmus T, Gunel E. “Effect of Alternate Maxillary Expansion and Contraction on Protraction of the Maxilla: a Pilot Study” Hong Kong Dental Journal. Vol 6, pp 72-82. 2009.

Hamilton J, Ngan P, Tremont T, Martin C, Gunel E. "Individual Preferences for Profile Attractiveness: A Soft Tissue Paradigm Shift" The Philippine Journal of Orthodontics. 2010.

Burns NR, Musich DR, Martin CA, Razmus T, Gunel E, Ngan P. "Class III Camouflage Treatment: What are the limits?". American Journal of Orthodontics and Dentofacial Orthopedics. Angle Orthodontist. Vol 137, No 2, pp 9.e1-9.e13, 2010.

Ngan P, Do-Delatour T, Martin CA, Razmus T, Gunel, E. Effect of alternate maxillary expansion and contraction on protraction of the maxilla: A pilot study. Journal of Dental Research, abstract #127360, Washington DC, March 4th, 2010.

Martin CA, Becht M, Ngan P, Razmus T, Gunel E. A study using 3D cone beam computed tomography to evaluate masseter muscle morphology in observed skeletal malocclusions. Journal of Dental Research, abstract #128237, Washington DC, March 4th, 2010.

Ulibarri R, Ngan P, Gunel E. Oro and Nasopharyngeal airway dimension of Class III patients treated with maxillary protraction. Journal of Dental Research, abstract #128285, Washington DC, March 4th, 2010.

Wigal T, Ngan P, Martin C, Gunel E. "Stability of Class II Patients Treated with Edgewise Crowned Herbst Appliance in the Early Mixed Dentition Skeletal and Dental Changes." American Journal of Orthodontics and Dentofacial Orthopedics. Accepted for Publication. 2010.

Wigal T, Ngan P, Martin C, Gunel E." Condyle and Glenoid Fossa Changes of Class II Patients Treated With Edgewise Crowned Herbst Appliance in the Mixed Dentition" Hong Kong Dental Journal. Accepted for Publication. 2010.

Cottrell L, Harris C, Bradlyn A, Gunel E, Neal W, Abildso L, Coffman J. "Identifying the People and Factors that Influence Children's Intentions to Make Lifestyle Changes: Health Promotion and Practice. Accepted for Publication. 2010.

## **TECHNICAL REPORTS**

Gunel, Erdogan, "Forecasting Manpower Needs". Department of Operations Research and Statistics, ODTU, 1977.

Gunel, Erdogan, "A Note on the Posterior Expectation", Department of Statistics and Computer Science, West Virginia University, Report 84-10, pp. 1-13, 1984.

Gunel Erdogan, "A Comparison of Randomized and Voluntary Response Sampling Models", Department of Statistics and Computer Science, West Virginia University, Report 84-11, pp. 1-37, 1984.

Smith, Philip, Sung Choi and Erdogan Gunel, "Bayesian Analysis of a 2x2 Contingency Table with Both Completely and Partially Cross-Classified Data", Department of Statistics and Computer Science, West Virginia University, Report 84-14, pp. 1-17, 1984.

Gunel, Erdogan, "Bernoulli Trials and the Weight of Evidence in Favor of a Null Hypothesis". Department of Statistics and Computer Science, West Virginia University, Report 85-6, pp. 1-7, 1985.

Gunel, Erdogan and Daniel Chilko, "Estimation of Parameter  $n$  of the Binomial Distribution", Department of Statistics and Computer Science, West Virginia University, Report 86-9, pp 1-17, 1986.

Gunel, Erdogan, "Bernoulli Trials and the Weight of Evidence in Favor of a Null Hypothesis", Department of Statistics and Computer Science, West Virginia University, Report 86-10, pp. 1-7, 1986

### **RESEARCH SUPPORTED BY GRANTS**

Bayes Factors for Independence in Contingency Tables. 1974. Research was supported in part by a U.S. National Institute of Health research grant.

Manpower Planning for TEK. 1975-1977. Research was supported by the World Bank.

A Bayesian Comparison of Randomized and Voluntary Response Sampling Models, 1985.

Research was supported in part by a West Virginia University Senate Grant.

The Role of Quality Assurance in a Concurrent Engineering Environment , 1988-1991  
Research was supported by Defense Advanced Research Projects Agency/ WVU  
Concurrent Engineering Reserch Center.

Oak Ridge Associated Universities, Fossil Energy Part-Time Faculty Research Participation Grant. 1988-1990, 1992-1994.

United Nations Grant. For five weeks presented seminars in Turkey on quality improvement techniques. 1990.

Fulbright Grant. Senior Fulbright Scholar in Turkey. 1990-1991.

Statistical Analysis for Fluidized Bed Gasifier. Erdogan Gunel, 1992. Department of Energy. \$24,000.00 .

Sorbent Formulation Plan. George Trapp and Erdogan Gunel, 1994. Department of Energy. \$1600.00 .

Maximum Grain Size in Granules. George Trapp and Erdogan Gunel, 1994. Department of Energy. \$1600.00 .

A Cephalometric and Biometric Comparison of Titanium On-Plants and Tooth-Borne Appliances as Anchorage for Maxillary Orthopedics. Peter Ngan,, David Hoffman, Erdogan Gunel. Funded by American Association of Orthodontists Foundation . \$ 15,000.00 .

"Establishment of Departments of Family Medicine" Mitch Jacques, K.C. Shannon, N. Montalto, Van Yasek, G. Spiegler, Erdogan Gunel, Cecil Pollard. Department of Health and Human Services. Funded, 1997-2000. \$ 509, 986.

“Integrating Formal Methods and Testing in a Quantitative Software Reliability Assessment Framework” Bojan Cukic, Erdogan Gunel, Harshinder Singh, Mark Shereshevsky. NASA, \$50.663. 10/2000-9/2001.

Bayesian Framework for Reliability Prediction of Component Based Software Bojan Cukic, Harshinder Singh, Erdogan Gunel, Vittorio Cortellesa.NASA. NASA, \$70,751. 10/2000-9/2001.

“Integrating Formal Methods and Testing in a Quantitative Software Reliability Assessment Framework” Bojan Cukic, Erdogan Gunel, Harshinder Singh, Mark Shereshevsky. NASA, \$90,887. 1/2001-12/2001.

Bayesian Framework for Reliability Prediction of Component Based Software Bojan Cukic, Harshinder Singh, Erdogan Gunel, Vittorio Cortellesa. NASA. NASA, \$96,342. 1/2001-12/2001.

“Integrating Formal Methods and Testing in a Quantitative Software Reliability Assessment Framework” Bojan Cukic, Erdogan Gunel, Harshinder Singh, Mark Shereshevsky. NASA, \$75,578, 1/2002-12/2002.

Bayesian Framework for Reliability Prediction of Component Based Software Bojan Cukic, Harshinder Singh, Erdogan Gunel, Vittorio Cortellesa. NASA. NASA, \$80,789. 1/2002-12/2002.

“Integrating Formal Methods and Testing in a Quantitative Software Reliability Assessment Framework” Bojan Cukic, Carol Smidts, Erdogan Gunel, Harshinder Singh, NASA, \$94,509. 1/2003-12/2003.

Center for Healthy Communities. Department of Health. Carole Harris, Andrew Bradlyn. (Co PI) \$32,850. 3/1/04-8/31/05.

Dislipidemia Detection in WV Families. National Institute of Health. Carole Harris, Andrew Bradlyn. ( Co PI ). \$16,425. 9/1/04-8/31/05.

Dislipidemia Detection in WV Families. National Institute of Health. Carole Harris, Andrew Bradlyn. ( Co PI ). \$67,406. 9/1/05-8/31/06.

Dislipidemia Detection in WV Families. National Institute of Health. (Co PI). Carole Harris, Andrew Bradlyn. Funded. 9/1/06-8/31/07. \$38,599.

## **RESEARCH INTERESTS**

Theoretical: Estimation of the parameter  $n$  of the binomial distribution, uninformative trial in Bernoulli hypothesis testing, opinion pooling and uses of expert opinions, subjective probability modeling, Bayesian hypothesis testing in two and three dimensional contingency tables, randomized and voluntary response sampling plans, analysis of dichotomous response with

nonrespondents, contingency tables with incompletely categorized data,  
contingency tables with both completely and partially cross-classified data.

Applications: Applications of statistics to medical research, statistical quality control and productivity, design and analysis of industrial experiments, statistical computation.

### **OTHER RESEARCH AND SERVICE ACTIVITIES**

Member of "DARPA Initiative for Concurrent Engineering" project research group. Responsible for research on on-line and off-line (Taguchi Methods) quality control. 1988-1991

Consultant to the Morgantown Energy Technology Center, U.S. Department of Energy. One Day a Week During the Academic Year & Full-Time During Summers , 1988-1990, 1992-1994.

Statistical Consulting to WVU Medical School ,University Community and Industry.

Referee for the *Journal of the American Statistical Association*, *Journal of the Royal Statistical Society*, *Biometrics*, *The Canadian Journal of Statistics*, *Metrika*, *European Journal of Operational Research*, *The Journal of Computational and Graphical Statistics*, *The Journal of Orthodontics*, *Mathematical Geology*.

