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Annual Report Executive Summary for 2008

Department of Statistics

Learning: Undergraduate
Number of undergraduates: 57 majors, 30 minors, 24 Actuarial Science minors
Graduated 15
Learning: Graduate
Number of graduate students: 66
Number of PhDs awarded: 3
Number of Masters awarded: 15
Funded on grants: 11
Post-doctoral students funded: 0
Funded on fellowships: 1
Discovery
Number of grants: 22
Amount of grants: \$1,951,514 Research expenditures: \$530,614
Number of publications 42
Number of papers in press 24
Engagement

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Laboratory for Interdisciplinary Statistical Analysis (LISA) activities

Collaborations: 306 clients, 1830 hours

Short Courses: 191 attendees, 5 sessions

Walk-in Consulting Service: 75 clients, 128 hours.

Corporate partners program – added one member resulting in 10 members (BD, Capital One, DuPont, Eli Lilly and Company, General Electric, J.P. Research, Minitab, Pratt and Whitney, R.J. Reynolds, SAS)

One faculty is editor of a journal, six faculty are on editorial boards of (13 total) journals

Diversity

Enhanced graduate education through teaching mentoring

Enhanced graduate education through research topic courses

Enhanced graduate experience through graduate student led seminars

Participation in departmental, college and university activities related to diversity

Goals for 2009

Mentoring new faculty

Increase grant submissions and funding

Enhancing LISA (Laboratory for Interdisciplinary Statistical Analysis)

Improve graduate teaching

Enhance undergraduate experience

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Details

New Grants

1. **P. Du** (Co-PI), Spatial risk mapping of *Ixodes scapularis* and *Borrelia burgdorferi* in Virginia: Evaluation of risk and spread of Lyme disease. PI: **E. P. Smith**. Other Co-PI: D. Gaines, D. Hawley, J. Kolivras, and S. Sedlock. \$20,000. Period: January 2009 – December 2009.
2. **F. Guo** (PI), “Developing Bayesian Models for Naturalistic Driver Study” sponsored by The National Surface Transportation Safety Center for Excellence. \$44,755.
3. **L. House**, (PI), Assessment Education Grant. The Office of Academic Assessment. Collaborators: E. Vance, and L. Harrell. \$1,800.
4. **G. Vining**, (PI), National Institute for Aerospace (NASA), “Rapid Prototyping Studies,” \$97,704. 8/17/07 – 9/25/08.
5. **G. Vining**, (PI), Becton – Dickinson, “BD Assistantship,” \$46,769; 10/1/07 – 9/30/08.
6. **G. Vining**, (PI), Pratt & Whitney, “Investigation of Maximum Likelihood versus Rank Regression for Modeling Life Time Data,” \$26,205. 11/1/07 – 8/15/08.
7. **W. Woodall** (PI), “Study of Vaccine Safety Monitoring Methods”, Merck, Inc. \$28,750.

Grants (continuing):

1. **F. Guo** (Co-PI), “Modeling accident data for the 100-car naturalistic study”, sponsored by The National Surface Transportation Safety Center for Excellence. \$30,000.
2. **I.Hoeschele** (Co-PI), RHL092572A, PI: Davy. National Institute of Health. Title: Angiotensin II Receptor Blockade and Adipose Tissue Inflammation in Obesity. 8/01/2008 – 7/31/2010. \$435,344.
3. **I.Hoeschele** (Co-PI), PI: Inzana. Wake Forest University (NIH). Title: Research Collaboration and TSI Program. 7/01/2007 – 6/30/2009. \$65,406.
4. **I.Hoeschele** (Co-PI), 1R01GM073766-01A2, PI: Gao. National Institutes of Health. Title: Haplotyping and QTL mapping in pedigrees with missing data. 6/1/2007 – 5/31/2012. \$177,582.
5. **I.Hoeschele** (PI), P30 CA12197, PI: Torti. WFUHS (NIH/NCI), Comprehensive Cancer Center of Wake Forest University. Title: Biostatistics Consulting. 2/1/2006 – 1/31/2012. \$255,612.

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6. **G. Holtzman**, FY08 DEQ Academic Advisory Committee Work Plan
Funding Agency: Virginia Department of Environmental Quality (VDEQ)
Principal Investigators: Golde Tamim Younos and Carl Zipper (CSES)
Total Funding for Dept of Statistics: \$1,650.
7. **G. Holtzman**, FY09 DEQ Academic Advisory Committee Work Plan
Funding Agency: Virginia Department of Environmental Quality (VDEQ)
Principal Investigators: Golde Tamim Younos and Carl Zipper (CSES)
Total Funding for Dept of Statistics: \$2,514.
8. **D. Kim** (PI), Dynamic Interactions Among People, Livestock, and Savanna Ecosystems
Under Climate Change (NSF CNH grant BCS-0709671). Role: Sole P.I. Subcontract with
Michigan State University. Amount: \$123,571. Period: 2007-2010.
9. **J.P. Morgan** (PI), NSF DMS 06-04997. Symmetry and Asymmetry in Experimental
Design. \$144,276. Award period: September 2006 -September 2010.
10. **E. P. Smith** (Co-PI), Jiao, Y., Orth, D. MARFIN two year study 08MF004 (RF) “Model
complexity and stock assessment quality: an investigation of the performance of models
of different complexity and implications for model selection in fisheries” (year 1 \$90,999
year 2 \$111,566, total \$202,565.
11. **G. Vining**, (PI), Pratt & Whitney, “Monte Carlo Simulation of the Engine Development
Process,” \$50,627. 1/1/08 – 12/31/08.
12. **G. Vining**, (PI), Pratt & Whitney, “Support to the ACE Program,”: \$45,000. Period:
3/1/08 – 12/31/08
13. **G. Vining**, (PI), National Institute for Aerospace (NASA), “Statistical Engineering for
Measurement System Characterization and Calibration,” \$114,384. Period: 6/27/08 –
7/1/09.
14. **G. Vining**, (PI), Pratt & Whitney, “Support to the Pratt & Whitney Computer
Experiment Project,” \$20,000. Period: 8/10/08 – 12/31/08.
15. **G. Vining**, (PI), Lulea Technical University, “Living and Travel Expenses for Research
Assignment,” Total: 120,000 SEK (approximately \$17,000). Period: 8/23/08 –
12/18/08.

Grants Pending:

1. **P. Du**, (Co-PI), Environmental variability and disease emergence: Spatial patterns of
Ixodes scapularis, *Borrelia burgdorferi* and the emergence of Lyme disease in Virginia.
National Science Foundation/National Institute of Health. \$2,499,703 (1 summer month

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of salary each year for Du in 08/01/2009 – 07/31/2014.) PI: K. Kolivras, Other Co-PI's: D. Gaines, D. Hawley, S. Sedlock, and **E. P. Smith**.

2. **P. Du**, (PI), (2008). Nonparametric modeling of survival data: A smoothing spline ANOVA approach. *National Science Foundation*. \$271,992 08/01/2009-07/31/2012.
3. **P. Du**, (Co-PI), New Analyses of the association between hematocrit level and mortality in hemodialysis patients. NIDDK/NIH. \$444,842 08/01/2009 – 07/31/2011). PI: L. Liu, Other Co-PI's: Z. Lin, and Z. Yu.
4. **P. Du**, (Co-PI), Spatial risk mapping of *Ixodes scapularis* and *Borrelia burgdorferi* in Virginia: Evaluation of risk and spread of Lyme disease. *National Aeronautics and Space Administration*. \$1,172,254 03/01/2009 -02/28/2013. PI: K. Kolivras, Other Co-Pi's: D. Gaines, D. Hawley, S. Sedlock, and E. P. Smith.
5. **F. Guo** (PI), "Final Report Revision for NADS Lane Change Collision Avoidance System Study"; submitted to National Highway Traffic Safety Administration (\$30,000).
6. **I. Hoeschele** (Co-PI), National Institutes of Health. PI: Y. Liu, WFU. Title: Epigenome-wide association study of DNA methylation and arteriosclerosis.
7. **I. Hoeschele** (PI), National Institutes of Health. PI: F. Zou, UNC. Title: Nonparametric Bayesian variable selection in genetics and genomics.
8. **I. Hoeschele** (PI), National Institutes of Health. Co-PI: I. Kim. Title: Multivariate Methods for Quantitative Trait Loci Mapping in Systems Genetics.
9. **L. House** (PI), Framework for Uncertainty Propagation and Quantification in the Response of Time-Varying Nonlinear Multidisciplinary Systems. RFP: Multidisciplinary University Research Initiative (MURI) BAA. Announcement number 08-019; FY09 MURI Topic No. 15; Multiscale Fusion of Information for Uncertainty Quantification and Management in Large-Scale Simulations. Air Force Office of Scientific Research. Collaborators: A. Nayfeh, M. Hajj, R. Canfield, S. Ragab, and S. Adjerid. 7.5 million for 5 years (>5 million goes to VT.)
10. **I. Kim** (Co-PI), PI: P. Schaumint (ECE). ICTAS proposal title: Unique and Unclonable On-chip Identifiers.
11. **I. Kim** (Co-PI), PI Ina Hoeschele, NIH proposal title: Highly Multivariate Quantitative Trait Loci Mapping in Systems Genetics.
12. **I. Kim** (PI), NSF proposal title: Variable selection methods for Mixture Models in Analysis of High-Dimensional Data. \$286,096.
13. **S. Leman** (PI), ICTAS: Optimizing Organic Photovoltaic Solar Technology Through Meta-Analysis for 100K over 2 years.

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14. **S. Leman** (PI), National Science Foundation (NSF 07-583): Foundations of Data and Visual Analytics for 400-500K over 3 years.
15. **Y. Liu** (Co-PI), Nanopharmaceutical Intervention in a Rodent Model of Complex Regional Pain Syndrome. PI: D. Bivins, MD Department of Anatomy, VCOM.
16. **Y. Liu** (Co-PI), Influence of Osteopathic Manipulation on Psoas Major Function: A Sports Performance Based Study. PI: J. Palmer, EV-VCOM, PPC/OMM. Total amount \$10,000 and 10% goes to Statistics.
17. **Y. Liu** (Co-PI), Prevalence of Jones' Iliacus Tenderpoints in the Young Adult Population. PI: J. Palmer, EV-VCOM, PPC/OMM.
18. **M. Lemons**, \$15,000 – NSF (REU Experience Grant in collaboration with the College of Engineering)
19. **E. P. Smith**, Murch, R. and others. Biometrics Training and Research Program. BAE Systems \$484,622.
20. **E. Vance**, R21 application to the NIH, "Polymer Beacons for Tracking Cardiovascular DNA Delivery", PI: Theresa Reineke.

Books and book chapters (published or in-press):

1. Banks, D. and **Smith, E. P.**, (editors) 2008. The Good Book: IJ Good's Comments, Criticisms and Conclusions. Rice University Press, Houston.
2. **Kim, I.**, Liu, Y., and Zhao, H., (2009). Sparsity priors for protein-protein interaction Bayesian methods, *Bayesian Statistics in Genomics*, edited by Bani K. Mallick and Samiran Ghosh, Chapman& Hall/CRC. (In press).
3. Liu, Y., **Kim, I.**, and Zhao, H., (2009). Protein interaction predictions from diverse source, *Frontier Statistics*, edited by Jun Lu, Chapman& Hall. (In press).
4. Pang, H., **Kim, I.**, and Zhao, H., (2008). Pathway-based methods for analyzing microarray data, *Analysis of Microarray Data: A Network-Based Approach*, 355-384, Edited by M. Dehmer and F. Emmert-Streib, John Wiley& Sons, Ltd.

Papers Published:

1. Bao, L. and **Hoeschele, I.**, (2008). Quality assessment for short oligonucleotide microarray data: Comment. *Technometrics* 50, 268-271.

2. **Du, P.**, and Tang, L. (2009), Transformation-invariant and nonparametric monotone smooth estimation of ROC curves. *Statistics in Medicine* 28, 349-359.
3. **Du, P.**, and Gu, C. (2009), Penalized pseudo-likelihood hazard estimation: a fast alternative to penalized likelihood. *Journal of Statistical Planning and Inference* 139, 891-899.
4. Fraker, S., **Woodall, W.**, and Mousavi, S., (2008). Performance Metrics for Surveillance Schemes. *Quality Engineering* 20, 451-464.
5. Fraker, S., **Woodall, W.**, and Burkom, H., (2008). A Note on the Poisson Likelihood Ratio Test Statistic for Kulldorff's Scan Methods. *Communications in Statistics – Theory and Methods* 37(7), 998-1001.
6. Gao, G., Allison, D. B., and **Hoeschele, I.**, (2008). A review of haplotyping methods in pedigrees. *Human Heredity* 67, 248-266.
7. **Guo, F.**, Dey, D., and Holsinger, K., (2008). "A Hierarchical Bayesian Approach for Estimating Origin of a Mixed Population", in IMS Collections, Volume 3, *Pushing the Limits of Contemporary Statistics: Contributions in Honor of Jayanta K. Ghosh*", 237-250.
8. **Guo, F.**, Wang, X., and Abdel-Aty, M. Corridor Level Signalized Intersection Safety Analysis Using Bayesian Spatial Models, *Proceeding of Transportation Research Board 2009 Annual Meeting* (CD ROM)
9. Hagerthey, S., Newman, S., Rutchey, K., **Smith, E. P.**, and Godin, J., (2008). The regime shift boundary in a subtropical wetland: Establishing ecological thresholds to low-level phosphorus enrichment. *Ecological Monographs* 78(4): 547-565.
10. Hite, G., King, S., Hagood, E., and **Holtzman, G.**, (2008). Differential Response of a Virginia Common Lambsquarters (*Chenopodium album*) Collection to Glyphosate. *Weed Science*: [56\(2\)](#) 203-209. (Received: July 1, 2007; Accepted: October 19, 2007, Issued March-April) [Full Text](#), Listed as in-press on 2007 FAR.
11. Hudy, M., Thieling, T., Gillespie, N., and **Smith, E. P.**, (2008). Known and Predicted Sub watershed Status of Brook Trout within the Eastern United States. *North American Journal of Fisheries Management* 28:1069-1085.
12. Jensen, W., Bryce, G., and **Reynolds, M. R., Jr.**, (2008). Design Issues for Adaptive Control Charts. *Quality and Reliability Engineering International*, 24, 429-445.
13. Jensen, W., **Birch, J.**, and **Woodall, W.**, (2008). Monitoring Correlation within Linear Profiles Using Mixed Models. *Journal of Quality Technology* 40, pp. 167-183.

14. Jensen, W. and **Birch, J.**, (2009). Profile Monitoring Via Nonlinear Mixed Models. *Journal of Quality Technology* 41, 18-35.
15. Jin, B. and **Morgan, J. P.** (2008). Optimal saturated block designs when errors are correlated. *Journal of Statistical Planning and Inference* 138, 3299-3308.
16. Joner, M., **Woodall, W.** and **Reynolds, M. R., Jr.**, (2008). Detecting a Rate Increase Using a Bernoulli Scan Statistic. *Statistics in Medicine*, 27, 2555-2573.
17. Joner, M., **Woodall, W.**, **Reynolds, M. R., Jr.**, and Fricker, R., (2008). A One-Sided MEWMA Chart for Health Surveillance. *Quality and Reliability Engineering International*, 24, 503-518.
18. Levy, F., **Leman, S.**, Walker, E. (2009). Nosocomial transmission clusters and risk factors in *Moraxella catarrhalis*. *Epidemiology and Infection*, 15, 1-10.
19. Liu, B., de la Fuente, A. and **Hoeschele, I.**, (2008). Gene Network Inference via Structural Equation Modeling in Genetical Genomics Experiments. *Genetics* 178, 1763-1776.
20. Liu, Y., **Kim, I.**, and Zhao, H., (2008). Protein interaction prediction from diverse sources, *Drug Discovery Today*, 13, 408-416.
21. Mahmoud, M., **Woodall, W.**, and Davis, R., (2008). Performance Comparison of Some Likelihood Ratio-Based Statistical Surveillance Schemes. *Journal of Applied Statistics* 35(7), 783-798.
22. Mohammed, M., Worthington, P., and **Woodall, W.**, (2008). Plotting Basic Control Charts: Tutorial Notes for Healthcare Practitioners. *Quality and Safety in Health Care* 17, 137-145.
23. Montgomery, D., and **Woodall, W.**, (2008). An Overview of Six Sigma. *International Statistical Review* 76(3), 329-346.
24. **Morgan, J. P.** (2008). Latin squares and related designs. *Encyclopedia of Statistics in Quality and Reliability*, 919-925.
25. **Morgan, J. P.** and Parvu, V. (2007). Most robust BIBDs. *Statistica Sinica* 18, 689-707.
26. Park, C., and **Reynolds, M. R., Jr.**, (2008). Economic Design of an Integrated Process Control Procedure with Repeated Adjustments. *Journal of the Korean Statistical Society*, 37, 155-174.
27. Pickle, S., Robinson, T., **Birch, J.**, and Anderson-Cook, C., (2008). A Semi-Parametric Approach to Robust Parameter Design. *Journal of Statistical Planning and Inference* 138, pp. 114-131.

28. Rakha, H., Arafeh, M., Abdel-Salam, A., **Guo, F.**, and Medina (2008). "Linear Regression Crash Prediction Models: Issues and Proposed Solutions," *Efficient Transportation and Pavement Systems: Characterization, Mechanisms, Simulation and Modeling* (Editors: Al-Qadi, Sayed, Alnuaimi, and Masad), Taylor and Francis, ISBN: 978-0-415-48979-9 (Hand Book), ISBN: 978-0-203-88120-0 (Electronic Book), pp. 241-256.
29. **Reynolds, M. R., Jr.** and Stoumbos, Z., (2008). Combinations of Multivariate Shewhart and MEMWA Control Charts for Monitoring the Mean Vector and Covariance Matrix. *Journal of Quality Technology*, 40, 381-393.
30. Sego, L., **Woodall, W.**, and Reynolds, M. R., Jr., (2008). A Comparison of Surveillance Methods for Small Incidence Rates. *Statistics in Medicine* 27(8), 1225 - 1247.
31. **Terrell, G.**, (2009). Co-Residual Analysis of Linear Models. Proceedings of the Section on the Physical and Engineering Sciences, Joint Statistical Meetings, Denver, Colorado pp. 2401-8.
32. **Vining, G.** and Kowalski, S., (2008). "Exact Inference for Response Surface Designs within a Split-Plot Structure," *Journal of Quality Technology*, 40, pp. 394-406.
33. **Vining, G.**, (2008). "Geoff Vining's Discussion of 'Must a Process Be in Statistical Control before Conducting Designed Experiments,'" *Quality Engineering*, 20, pp. 151-153.
34. Wang, Y. and **Kim, I.**, (2008). A Bootstrap-based simple probability model for classifying network traffic and detecting network intrusion, *Security Journal*, 21, 278-290.
35. Williams, J., Sullivan, J., and **Birch, J.**, (2009). Maximum Value of Hotelling's T^2 Statistic Based on the Successive Differences Covariance Matrix Estimator. *Communications in Statistics: Theory and Methods* 38 (4), pp. 471-483.
36. **Woodall, W.**, Marshall, J., Joner, M. D., Jr., Fraker, S., and Abdel-Salam, A., (2008). On the Use and Evaluation of Prospective Scan Methods in Health-Related Surveillance. *Journal of the Royal Statistical Society, Series A*, 171(1), 223-237.
37. **Woodall, W.** and Borror, C., (2008). Some Relationships between Gage R&R Criteria. *Quality and Reliability Engineering International* 24, 99-106.
38. Zhang, H., Thieling, T., Prins Bates, S., Hudy, M., and **Smith, E. P.**, (2008). Model-Based Clustering in a Brook Trout Classification Study within the Eastern United States. *Transactions of the American Fisheries Society*. 1371:841-851.

Papers In Press:

1. Boone, E., Ye, K. and **Smith, E. P.**, (2009). Using data augmentation via the Gibbs Sampler to incorporate missing covariate structure into linear models for ecological assessment. *Environmental and Ecological Statistics* 16:75-87.
2. **Du, P.**, and Ma, S. (2008), Frailty model with spline estimated nonparametric hazard function. *Statistica Sinica*.
3. **Du, P.** (2007), Nonparametric modeling of the gap time in recurrent event data. *Lifetime Data Analysis*.
4. **Guo, F.**, Dey, D., and Holsinger, K. On Detecting Stabilizing or Divergent Selection Using Patterns of Variation at SNP Loci, accepted by *Journal of American Statistical Association*.
5. Huang, H., Zhu, H., Cheng, F., **Hoeschele, I.** and Zou, F., (2009). Gaussian process based Bayesian semiparametric quantitative trait loci interval mapping. *Biometrics* (in press).
6. Jiao, Y., Reid, K., Nudds, T. and **Smith, E. P.** Graphical evaluation of fisheries status using a likelihood inference approach. Submitted to *North American Journal of Fisheries Management*.
7. Jiao, Y., Reid, K. and **Smith, E. P.** Model selection uncertainty and Bayesian model averaging in fisheries recruitment modeling. Chapter 26 in Beamish, ed., *The Future of Fisheries Science in North America*.
8. **Leman, S.**, Chen, Y., Lavine, M. (2009), The Multiset Sampler. *JASA (Accepted and to appear)*
9. Liu, B., **Hoeschele, I.** and de la Fuente, A., (2009). Inferring gene regulatory networks from genetical genomics data. In: *Computational methodologies in gene regulatory networks*. S. Das, D. Caragea, W.H. Hsu and S.M. Welsh (eds.), IGI Global (in press).
10. Moore, N., Torbick, N., Lofgren, B., Wang, J., **Kim, D.**, and Andresen, J. (2009) Adapting MODIS-derived LAI and fractional cover into the RAMS model for East Africa. To appear in the special issue of *International Journal of Climatology*.
11. **Morgan, J. P.** (2008). Optimal resolvable designs with minimum PV aberration. *Statistica Sinica*, to appear.
12. **Morgan, J. P.** (2008). Variance balance and admissibility. *Journal of Statistics and Applications*, to appear.

13. **Morgan, J. P.** (2008). On MV-optimality of resolvable designs from 2-level orthogonal arrays. *Statistics and Applications*, to appear.
14. Novak, D.C., Hodgdon, C., **Guo, F.**, Aultman-Hall, L. (2008). "Nationwide Freight Generation Models: A Spatial Regression Approach". Accepted by *Networks and Spatial Economics*. October 2008.
15. **Reynolds, M. R., Jr.**, and Stoumbos, Z., (2009). Multivariate Monitoring of the Process Mean and Variability Using Combinations of Multivariate Shewhart and MEMWA Control Charts. To appear in *Frontiers in Statistical Quality Control*.
16. **Reynolds, M. R., Jr.**, (2009). Discussion on "Optimal Sequential Surveillance For Finance, Public Health, and Other Areas" By Marianne Frisen. To appear in *Sequential Analysis*.
17. Rose, K., Roth, B., **Smith, E. P.**, (2009) Skill assessment of spatial maps. *Journal of Marine Science* 76:34-48.
18. Sego, L., **Reynolds, M. R., Jr.**, and **Woodall, W.**, (2009). Risk-Adjusted Monitoring of Survival Times. To appear in *Statistics in Medicine*.
19. **Vance, E.**, Archie, E., and Moss, C., Social Networks in African Elephants, *Computational & Mathematical Organization Theory* to appear in 2009.
20. Wang, L., Kowalski, S. and **Vining, G.**, (2009). "Orthogonal Blocking of Response Surface Split-Plot Designs," to appear.
21. Wang, L., Kowalski, S. and **Vining, G.**, (2009). "Two-Strata Rotatability in Split-Plot Central Composite Designs," *Applied Stochastic Models in Business and Industry*, to appear.
22. **Woodall W.**, (2009). Invited Discussion of 'Optimal Sequential Surveillance for Finance, Public Health, and Other Areas' by Marianne Frisen, To appear in *Sequential Analysis*.
23. **Woodall, W.**, Grigg, O., and Burkom, H., (2009). Research Issues and Ideas on Health-Related Monitoring, to appear in *Frontiers in Statistical Quality Control 9*, edited by H. J. Lenz and P. -Th. Wilrich.
24. Zhou, L., Mideros, S. X., Bao, L., Hanlon, R., Arredondo. F., Tripathy, S., Kampis, K., Jerauld, A., Evans, C., St. Martin., S. K., Maroof, S., **Hoeschele, I.**, Dorrance, A. E. and Tyler, B. M., (2009). Infection and genotype remodel the entire soybean transcriptome. *BMC Genomics* (in press).

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Fall 2008 Graduates

Celso, Jonathan R.	MS
Guo, Xiaobo	MS
Herath, Herath M. K.	MS
Johnson, Nels G.	MS
Kensler, Jennifer L. K.	MS
McCann, Patrick M.	MS
Nsoesie, Elaine O.	MS
Ringer, James K.	MS
Sabatia, Charles O.	MS
Wang, Xiangrong	MS
Williams, Matthew R.	MS
Xiao, Pei	MS
Zhang, Qi	MS
Zhang, Wen	MS

Lou, Jianying	PHD
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Summer II 2008 Graduates

Gao, Feng	PHD
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Summer I 2008 Graduates

Li, Zhonggai	PHD
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Spring 2008 Graduates

Biberaj, Lydia	MS
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Corporate Partners Program

New Partners:

JP Research

Continuing Corporate Partners:

Becton Dickinson Diagnostics

Capital One.

DuPont

Eli Lilly

General Electric

Kraft

Minitab

Pratt & Whitney

SAS

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Service

Jeff Birch

- Chair, Teaching Evaluation Committee, 2000-present.
- Chair, Graduate Committee, 2001-present.
- Director of Graduate Programs in Statistics, 2001-present.
- Coordinator for STAT 3005-3006, STAT 3615-3616
- Faculty advisor, Mu Sigma Rho. (National Statistics Honor Society) 1991-present
- Referee for the Journal of Quality Technology (one paper)

Pang Du

- Reviewer for Journal of Computational and Graphical Statistics, Journal of Statistical Computational and Simulation.

Feng Guo

- Department Computer Committee
- Reviewer for Transportation Research Board annual meeting and the Journal of Transportation Research Record
- Reviewer for the Journal of Accident Analysis and Prevention

Leigh Harrell

- College of Science Curriculum Committee
- University Committee on Teaching Evaluations
- Met with Electrical Engineering department to look at modifications to Stat 4714, Statistics for Electrical Engineers.

Ina Hoeschele

- College of Science P&T committee
- VBI faculty evaluation advisory committee
- GBCB steering and admissions committees
- Adjunct Professor in the VT-Carillon Medical School, participated in curriculum development (Genetics, Block I team member))
- Associate Editor for the journal Genetics (new)
- Associate Editor for Biometrics (term ended in 2008)
- Associate editor for Genetics-Selection-Evolution (continued)
- Member of NIH grant proposal review panel for the GCAT (Genomics, Computational Biology and Technology) study section
- Panel reviewer for NSF Advances in Biological Informatics program

Golde Holtzman

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- Chairperson of the departmental Corporate Partners Committee.
- Member, COS Cluster Committee (2007-2009).
- Elected member, Department of Statistics Personnel Committee, 2007-2009
- Appointed to Department of Statistics search committee for assistant professor, 2008-09.
- Appointed to Department of Psychology search committee for assistant professor, 2008-09.
- Mentor for assistant professor, Department of Statistics, 2007-2009
- Member, Academic Advisory Committee (AAC), Virginia Department of Environmental Quality, Tamim Younis, chair, 2007-2009
- Elected Mu Sigma Rho national councilor at large, 2007-2010

Leanna House

- Co-organizer for the Department of Statistics weekly colloquia.
- Organized a lunch for the female faculty and graduate students in our department.

Dong Yun Kim

- Refereed for the journal *The American Statistician*.

Inyoung Kim

- Qualifying exam committee member
- Search committee member
- Co chair of Sigma Mu research seminar for the Corporate Partner's Conference.
- Referee for Canadian Journal of Fisheries and Aquatic Sciences

Marlow Lemons

- University Library Committee
- University Diversity Committee

Scotland Leman

- Organizing the departmental colloquium.

Ying Liu

- Reviewed 2 hatch projects

JP Morgan

- Personnel Committee, Department of Statistics
- Search Chair, Department of Statistics
- Graduate Committee, Department of Statistics
- Policy & Procedures Committee, Department of Statistics
- Mentor to Junior Faculty: Dong-Yun Kim
- Associate Editor, *Journal of Statistical Planning and Inference*.
- Associate Editor, *Journal of the American Statistical Association*.
- Associate Editor, *The American Statistician*

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- Referee for *Annals of Statistics*, *Journal of the Korean Statistical Society*, *Metrika*, *Statistical Methodology*, *Statistics and Applications*, *Statistics & Probability Letters*, *Technometrics*.
- External reviewer for four promotion cases

Marion Reynolds

- Co-chair of the Personnel Committee (2007-2008)
- Chair of the Cluster Hiring Search Committee (2007-2008)
- Personnel Committee (2008-2009)
- Cluster Hiring Search Committee (2008-2009)
- Teaching Evaluation Committee
- Qualifying Exam Committee
- Policy/Procedures Committee
- Editorial Board Member *Journal of Quality Technology*, *IIE Transactions*
- Refereeing: *Journal of Quality Technology*, *Technometrics*, *IIE Transactions*, *Communications in Statistics*, *Applied Stochastic Models in Business and Industry*, *International Journal of Production Economics* (2 papers), *Quality and Reliability Engineering International*
- Member of the Advisory Board of the Quality, Statistics, and Reliability Section of The Institute for Operations Research and the Management Science

Eric Smith

- Associate editor for *Environmetrics*
- Editorial Collaborator for *Environmental and Ecological Statistics*

George Terrell

- Undergraduate Program Committee for the Department of Statistics.
- Associate Editor of the *Journal of Computational and Graphical Statistics*

Geoff Vining

- College P&T Committee (until July 2008)
- Department Qualifying Examination Committee
- Department Corporate Partners Committee
- Editor-in-Chief, *Quality Engineering*.
- Co-Chair, Publications Management Board, American Society for Quality.
- Member, Advisory Board, *Quality Engineering*.
- Opponent, Malin Albin's Ph.D. Defense, Lulea Technical University.

Eric Vance

- Member of the Faculty Senate

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- Organized the Fall 2008 LISA Short Course Series
- Founded the LISA Walk-in Consulting Service
- Initiated a branch of StatCom, a student-run organization providing pro-bono statistical collaboration and consulting to local governmental and non-profit organizations. The StatCom chapter at Virginia Tech was subsequently founded in October 2008. More details can be found at <http://lisa.stat.vt.edu/statcom>

Bill Woodall

- Departmental Personnel Committee (co-chair in spring 2008), Departmental Graduate Committee
- Departmental Corporate Partners Committee (with responsibility with Inyoung Kim for organizing the Student Research Seminar for the Corporate Partners Conference)
- Member of the Editorial Review Boards of the *Journal of Quality Technology* and *Quality Engineering*
- Member of the American Statistical Association (ASA) Deming Lecturer Committee (I successfully nominated the 2008 Deming Lecturer, Dr. Don Berwick of the Institute for Healthcare Improvement and Harvard University.)
- Member of Advisory Board of Quality, Statistics, and Reliability Section of INFORMS
- Reviewer for *Quality Engineering*), *Quality and Reliability Engineering International*, *Journal of Quality Technology*, *International Journal of Forecasting*, *Frontiers In Statistical Quality Control*, *Journal of Statistical Planning and Inference*, *Journal of Statistical Software*, *Statistics in Medicine*, *Applied Stochastic Models in Business and Industry*, *Scientia Iranica Journal*, *Health Care Management Science*, *IIE Transactions (2)*, *Communications in Statistics – Theory and Methods*.
- Board of Directors for American Society for Quality Roanoke/Radford Section 1107: Student Liaison
- Outside Reviewer: Promotion to Professor, Arizona State University West; Promotions to Associate Professor, Athens University of Economics and Business and Naval Postgraduate School.
- Served on NSF Review Panel for Manufacturing Enterprise Systems, December 2008.

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Honors and awards

Fellows of the American Statistical Association

Active Faculty

Marion Reynolds
Eric Smith
Geoff Vining
Bill Woodall

Emeritus Faculty

Jesse Arnold
I.J. Good
Klaus Hinkelmann
Dick Krutchkoff
Ray Myers

Fellows of the American Society for Quality

Geoff Vining
Bill Woodall

Elected Members, International Statistics Institute

Marion Reynolds
Eric Smith
Geoff Vining
Bill Woodall

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Diversity activities (6 faculty reporting)

- Organized a lunch for the female faculty and graduate students in our department.
- COS Diversity Committee
- Doctoral advisor for female and international graduate students
- New faculty mentoring
- Interactions with Cranwell Center
- Attended the Fourth Annual Multicultural Luncheon
- Mentoring minority graduate students
- Department of Psychology hiring committee, recruitment of female faculty member
- Maintaining an office that is a VT LGTBTA Safezone