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EDUCATION

- Master of Science in Veterinary Science. Mississippi State University, Starkville, Mississippi, 2000. Area of concentration: Swine Production Medicine
 - Doctor of Veterinary Medicine. Mississippi State University College of Veterinary Medicine, Starkville, Mississippi, 1999.
 - Bachelor of Science in Biology, Minor in Chemistry. University of North Carolina at Chapel Hill, Chapel Hill, North Carolina, 1995.
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VETERINARY PRACTICE CREDENTIALS

- Veterinary Licensure: North Carolina, Texas, Oklahoma, Colorado, Kansas, Iowa
 - USDA Accreditation: Oklahoma, Kansas, Colorado, Iowa
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VETERINARY PRACTICE EXPERIENCE

- Assistant Professor, Veterinary Diagnostic and Production Animal Medicine, College of Veterinary Medicine, Iowa State University. Assignment 50% Teaching, 20% Research, 20% Professional Practice, 10% Other. 2003-Present.
 - National Barrow Show Progeny Test Veterinarian, Ames, IA 2004 - Present
 - Production Veterinarian, Seaboard Farms. Guymon, Oklahoma, 1999 – 2003. Responsibilities include primary veterinary care for all phases of 185,000 sow herd, regulatory compliance, development and implementation of Biosecurity Program, adoption of needle free injection technology, supervision of vaccine and antibiotic safety and efficacy trials, development of on farm food safety program, education of production personnel on treatment and disease topics, and supervision of four technicians and one veterinarian.
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PUBLICATIONS – REFEREED (4)

1. Karriker L, Schwartz K, Miles K, Patterson A. What Is Your Diagnosis? Hind limb paresis in a boar. Submitted and recommended for publication. Journal of the American Veterinary Medical Association.
2. Karriker L, Destajo R. PRRSV Negative Herds: A Survival Analysis. The 2005 Nebraska Swine Report. Pgs 3-5.

3. Scott Hurd, James McKean, Irene Wesley, Locke Karriker. The Effect of Transport and Lairage on Salmonella Isolation from Market Pigs. *Journal of Swine Health and Production*. 2000, 429-434.
4. Scott Hurd, James McKean, Irene Wesley, Locke Karriker. The Effect of Lairage on Salmonella Isolation from Market Swine. *Journal of Food Protection*. 2001 July; 64(7): 939-944.

PUBLICATIONS – NON REFEREED (22)

1. Karriker L, Patterson A. Conducting practical and real on farm experiments. Proceedings of the Annual Meeting of the American Association of Swine Veterinarians Pre-conference Workshop. Toronto, Canada. 2005.
2. Karriker L. Traditional and non-traditional means to acclimate gilts. Proceedings of the Annual Meeting of the American Association of Swine Veterinarians Pre-Conference Workshop “Gilt Development”. Toronto, Canada. 2005.
3. “Production performance drivers and sources of variation in growing pig production” Proceedings of the Pfizer Animal Health 10th Annual Swine Seminar. Galena, Illinois. June 15-17, 2005.
4. Locke Karriker. Reconciling economic, statistical, and system structure significance in field trial results. *Journal of Swine Health and Production*. 2004;12(6):000–000.
5. “Porcine Reproductive and Respiratory Syndrome Update and TGE Case Study” XIII DIA DEL PORCICULTOR. Obregon, Sonora, Mexico. December 13, 2004.
6. Karriker L, Zimmerman J. PRRS persistence in grow-finisher systems. Proceedings of the 12th Annual Iowa State Swine Disease Conference for Swine Practitioners. Ames, IA. November 12, 2004. pgs 149-153.
7. Karriker L, Patterson A. Edema Disease – systems approach. Proceedings of the 12th Annual Iowa State Swine Disease Conference for Swine Practitioners. Ames, IA. November 11, 2004. pgs 29-34.
8. Karriker L. Pros and cons of closed herds concepts. *National Hog Farmer*. October 15, 2004. pgs 28-33.
9. “9-28-04 DRAFT: Best practices for Maintenance of Health in Alternative Pork Production”. Presented to Practical Farmers of Iowa involved in RAF project. Mason City, Iowa. September 29, 2004.
10. “PRRSV Update” Iowa Veterinary Medical Association 122nd Annual Meeting – Swine Session. Ames, Iowa. September 23, 2004.
11. Karriker L. Antibiotic Selection and Management in Swine. Proceedings of the Iowa Veterinary Medical Association 122nd Annual Meeting – Swine Session. Ames, Iowa. September 23, 2004.

12. Karriker L, Vander Heide H. Case Report - Stray Voltage and Power Failure. Proceedings of the Iowa Veterinary Medical Association 122nd Annual Meeting – Swine Session. Ames, Iowa. September 23, 2004.
13. Karriker L. Field experiences with PMWS control and management. Proceedings of the A. D. Leman Conference. University of Minnesota. St. Paul, Minnesota. September 20, 2004. pgs 97-101.
14. Karriker L. New Trends in PRRSV Diagnosis. Proceedings of the 37th Semana Nacional de Ganado Porcino (SEPOR). Lorca (Murcia) Spain. September 15, 2004
15. Karriker L. PRRSV negative herds: A survival analysis. Proceedings of the American Association of Swine Veterinarians Pre-Conference Meeting “PRRS Epidemiology”, Des Moines, Iowa. March 6, 2004.
16. Karriker L. Considerations for developing an swine influenza vaccination program. Proceedings of the Iowa Veterinary Medical Association Winter Meeting. Ames, Iowa. 2004
17. Swine Flu 2004 – A Teleconference Roundtable. Sponsored by Schering Plough and recorded Dec 10, 2003.
18. Daniels C, Daniels A, Karriker L. Challenges in diagnosis and control of swine influenza virus. Proceedings of the American Association of Swine Veterinarians Annual Meeting. March 6, 2003. Pgs 381-386.
19. “Developing a Finisher Training Course” – Cases for the Large System Veterinarian, Pre-conference Workshop Proceedings, A.D. Leman Swine Conference, 2001
20. Hurd H, McKean J, Wesley I, Karriker L. The Effect of Transport and Lairage on Salmonella Isolation from Market Pigs. Proceedings of the American Association of Swine Practitioners Annual Meeting. March 7, 2000. pgs. 429-434.
21. Locke Karriker, Randall Little. A Partial Budget Evaluation of Gilt Selection and Development in a Commercial Swine Herd. Proceedings of the 30th Annual Academy of Finance Annual Meeting, Little Rock, Arkansas 1999.
22. Ginger Podojil, Locke Karriker. Practical Gilt Selection. Proceedings of the American Association of Swine Practitioners Annual Meeting, St. Louis, Missouri 1999. pgs 47-51.

**COMPETITIVE GRANTS FUNDED AS PRIMARY
INVESTIGATOR (\$206,168)**

1. L. Karriker, C. Munoz-Zanzi, J. Zimmerman. “Investigation of factors impacting the rate of PRRSV transmission in nursery and finisher pig flows and assessment of transmission rate and timing on economic performance”. Submitted to the National Pork Board PRRS Initiative. \$138,076.

2. L. Karriker, M. Apley. National Pork Board Project # 04-034 "Determination of serum concentrations resulting from administration of high and low dose orally administered acetylsalicylic acid and sodium salicylate in swine through water medication systems." 2004. \$23,215.
3. L. Karriker, M. Apley, J. Carr. Miller Faculty Fellowship "Continuous Quality Improvement Applied to Food Animal Veterinary Education." 2004. \$25,000.
4. L. Karriker, K. Stalder, J. Harmon, T. Baas. "Integration and validation of a radio frequency identification system and automatic scale technology for real-time correlation of management and disease impacts on the performance of swine in field studies" Funded by Healthy Livestock Initiative Competitive Grants Program. 2004. \$19, 877.

COMPETITIVE GRANTS FUNDED AS CO- INVESTIGATOR/COLLABORATOR (\$739,437)

1. J. Mabry, P. Halbur, M. Honeyman, R. Pirog, L. Karriker, J. McKean, J. Kliebenstein, J. Dewitt, D. Exner. "Enhancing small farm prosperity: an integrated research, education and outreach program for niche pork production. NRI Competitive Grant Proposal # 2005-00659. \$499,000.
2. J. Zimmerman, K. Bryden, S. Hoff, L. Karriker. "Modeling PRRS virus aerosol transmission within and between farms. Submitted to the National Pork Board PRRS Initiative. \$110,885.
3. K. Stalder, L. Karriker, A. O'Conner, J. McKean. "Evaluation of sows at harvest to determine the incidence of abnormalities that could lead to culling of breeding herd females". National Pork Board. 2004. \$104,552.
4. C. Schmitt, L. Karriker. Boehringer Ingelheim Vetmedica, Inc. PRRS Research Award "Production of neutralizing antibody against PRRSV and effect on rate and duration of piglet infection" 2003. \$25,000.

COMPETITIVE GRANT SUBMISSIONS (7)

1. K. Platt, R. Evans, L. Karriker "Is West Nile Virus a risk factor for reproductive failure in swine herds?" Submitted for ILHAC funding. February 19, 2004. \$20,000.
2. J. Zimmermann, D. Hopper, L. Karriker, D. Benfield. NPB #04-119 "Defining the rules of PRRS virus transmission – an ethological approach" 2004. \$84,696.
3. J. Zimmerman, D. Hopper, L. Karriker. "Identifying the ethological basis of PRRS virus transmission" Submitted to USDA formula funds. 2004. \$21,814.
4. H. Xin, L. Karriker, J. Harmon, T. Baas, C. Wathes, P. Kettlewell. "Evaluation of Nursery-Grower Pig Welfare and Production Performance as Affected by

Ground Transportation Conditions” Submitted in response to National Pork Board Special Research Solicitation Program. 2004. \$74,990.

5. K. Harmon, D. Jordan, L. Karriker, and L. Hoffman. “Validation of Real-time PCR and RFLP Typing for the Detection of Haemophilus parasuis from Swine Tissues” Submitted to Iowa Healthy Livestock Initiative. 2004. \$12,000.
6. J.Roth, H. Harris, L. Karriker. “Iowa State University Center for Foreign Animal and Zoonotic Disease Defense Section A2: Livestock Biosecurity” Submitted to Department of Homeland Security. 2004.
7. J. Harmon, K. Stalder, T. Baas, and L. Karriker. “Effects of space allocation and water temperature on welfare of newly weaned pigs”. Submitted to the National Pork Board. 2003. \$80,000.

PRESENTATIONS PROVIDING VETERINARY CONTINUING EDUCATION (15)

1. “Conducting successful field research” 2005 Annual Meeting of the American Association of Swine Veterinarians Pre-conference seminar. March 2005.
2. “Traditional and non-traditional means to acclimate gilts” 2005 Annual Meeting of the American Association of Swine Veterinarians Pre-conference seminar “Gilt Development”. March 2005.
3. “Edema Disease – A systems approach” 12th Annual Iowa State Swine Disease Conference for Swine Practitioners. Ames, IA. November 11, 2004.
4. “Field Study of PRRSV Virus Persistence in Nursery and Finisher Populations of Commercial Swine Herds” 12th Annual Iowa State Swine Disease Conference for Swine Practitioners. Ames, IA. November 12, 2004.
5. “Production performance drivers and sources of variation in growing pig production” Pfizer Animal Health 10th Annual Swine Seminar. Galena, Illinois. June 15-17, 2005. 6.25 hours CE from Iowa Board of Veterinary Medicine.
6. “PRRSV Negative Herds: A survival analysis.” AASV Annual Meeting, Des Moines, Iowa. March 6, 2004.
7. “Developing a Finisher Training Course” – Cases for the Large System Veterinarian, Pre-conference Workshop, A.D. Lemman Swine Conference, 2001
8. “Porcine Reproductive and Respiratory Syndrome Update and TGE Case Study” XIII DIA DEL PORCICULTOR. Obregon, Sonora, Mexico. December 13, 2004.
9. “Considerations for Developing an SIV Vaccination Program”. IVMA Winter Meeting. Ames, IA. 2004

10. "New Trends in PRRSV Diagnosis". 37th Semana Nacional de Ganado Porcino (SEPOR). Lorca (Murcia) Spain. September 15, 2004
11. "Field Experiences with PMWS control and management" A. D. Leman Conference. University of Minnesota. St. Paul Minnesota. September 20, 2004.
12. "PRRSV Update" Iowa Veterinary Medical Association 122nd Annual Meeting – Swine Session. Ames, Iowa. September 23, 2004.
13. "Antibiotic Selection and Management in Swine" Iowa Veterinary Medical Association 122nd Annual Meeting – Swine Session. Ames, Iowa. September 23, 2004.
14. "Case Report - Stray Voltage and Power Failure" Iowa Veterinary Medical Association 122nd Annual Meeting – Swine Session. Ames, Iowa. September 23, 2004.
15. "Field Investigation of PRRSV Circulation in Nursery and Finisher Pigs – Preliminary data" UMN Veterinary Epidemiology Short Course, Friday Seminar. University of Minnesota College of Veterinary Medicine. June 4, 2004.

PRESENTATIONS (23)

1. "Porcine Reproductive and Respiratory Syndrome (PRRS) Update." Iowa Pork Congress. Des Moines, Iowa. January 26, 2005.
2. "Health Manual: Best practices for Maintenance of Health in Alternative Pork Production". Practical Farmers of Iowa Annual Conference. Des Moines, Iowa. January 15, 2005.
3. "Field Study of PRRSV Virus Persistence in Nursery and Finisher Populations of Commercial Swine Herds" 5th Annual Meeting of NC-229: International Workshop on PRRS. Chicago, Illinois. November 13, 2004
4. "PRRS and Animal Health Update" ISU Extension Field Specialists In-Service Training. October 27-28, 2004. Ames, Iowa State University.
5. "Designing Field Research Trials" ISU Extension Field Specialists In-Service Training. October 27-28, 2004. Ames, Iowa State University.
6. "Research Review for the Iowa Livestock Health Advisory Committee" ILHAC Committee Meeting. Ames, IA. September 8, 2004.
7. "9-28-04 DRAFT: Best practices for Maintenance of Health in Alternative Pork Production". Practical Farmers of Iowa involved in RAF project. Mason City, Iowa. September 29, 2004.
8. "PRRSV Update" The Mobley Group facilitated by Dr. Tom Baas. Ames, Iowa. September 28, 2004.

9. "Key Production Drivers From A Veterinarian's Perspective" Pfizer Marketing In-service Training. Chicago, Illinois. July 28, 2004.
10. "Field Investigation of PRRSV Circulation in Nursery and Finisher Pigs – Preliminary data" NC Swine Vet Meeting, Kenansville, NC March 24, 2004
11. "PRRSV Serotherapy" NC Swine Vet Meeting, Kenansville, NC March 24, 2004
12. Regional Meeting - Advanced Swine Reproduction "Reproductive Herd Health Management: Strategies to Minimize Impact of Disease" Cherokee, IA 2004
13. Regional Meeting - Advanced Swine Reproduction "Reproductive Herd Health Management: Strategies to Minimize Impact of Disease" Waverly, IA 2004
14. Iowa Pork Producers Association 2004 Iowa Pork Regional Conferences – "Understanding and Reducing the Cost of Disease" Carroll, IA 2004
15. Iowa Pork Producers Association 2004 Iowa Pork Regional Conferences – "Understanding and Reducing the Cost of Disease" Waverly, IA 2004
16. Iowa Pork Producers Association 2004 Iowa Pork Regional Conferences – "Understanding and Reducing the Cost of Disease" Iowa City, IA 2004
17. Iowa Pork Producers Association 2004 Iowa Pork Regional Conferences – "Understanding and Reducing the Cost of Disease" Oelwein, IA 2004
18. Iowa Pork Producers Association 2004 Iowa Pork Regional Conferences – "Understanding and Reducing the Cost of Disease" Iowa Falls, IA 2004
19. "PRRS 101: Basics of Serology and Diagnostics: Sorting out the 'Information'." National Swine Registry Commercial Breeder Program. July 1, 2004. Urbandale, Iowa
20. "Antibiotic Selection and Management in Swine." 2004 World Pork Expo. Des Moines, Iowa. June 11, 2004.
21. "Animal Medicinal Drug Use Clarification Act." 2004 World Pork Expo. Des Moines, Iowa. June 11, 2004.
22. "Take the Challenge - Agricultural Careers Question and Answer Panel" 2004 World Pork Expo. Des Moines, Iowa. June 11, 2004.
23. Swine Flu 2004 – A Teleconference Roundtable. Sponsored by Schering Plough recorded Dec 10, 2003.

COURSES COORDINATED (7)

1. VDPAM 480 Advance Swine Production Medicine. Spring 2004.
2. VDPAM 478 Introduction To Swine Production Medicine. Fall 2003
3. VDPAM 478 Introduction To Swine Production Medicine. Spring 2004
4. VDPAM 478 Introduction To Swine Production Medicine. Fall 2004

5. VDPAM 340x Clinical Foundations I. Spring 2004
 6. VDPAM 590 Special Topics – Swine Disease Management (Marlin Hoogland)
 7. VDPAM 590 Special Topics – Swine Nutrition (Arturo Oropeza-Munoz)
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COURSE LECTURES (8)

1. VDPAM 411 Production Animal Medicine “The Veterinarian’s Role in Vertically Integrated Swine Production” 2003-2004
 2. VDPAM 411 Production Animal Medicine “Interesting Cases via Digital Media” 2004-2005
 3. VDPAM 445 Clinical Medicine. “Lecture 1: Swine Practice and Swine Production Overview” Spring 2004
 4. VDPAM 445 Clinical Medicine. “Lecture 2: Physical Examination, Behavior and Restraint” Spring 2004
 5. VDPAM 445 Clinical Medicine. “Lecture 3: Farrowing Barn Problems” Spring 2004
 6. VDPAM 445 Clinical Medicine. “Lecture 4: Breeding-Gestation Problems and Management” Spring 2004
 7. VDPAM 445 Clinical Medicine. “Lecture 5: Principles of Vaccination, Principles of Biosecurity, and PRRSV Control” Spring 2004
 8. VDPAM 487 Livestock Disease Prevention “PRRSV” September 2004
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WEB BASED COURSES DEVELOPED (5)

1. American College of Veterinary Preventive Medicine Board Exam Study Group
https://webct.ait.iastate.edu/SCRIPT/ACVPM_STUDY/scripts/serve_home.
Initiated Spring 2005.
2. Swine Discussion Group and Summer Student Orientation
https://webct.ait.iastate.edu/SCRIPT/Swine_Discussion/scripts/serve_home.
Initiated Spring 2005.
3. VDPAM 340 Clinical Foundations
https://webct.ait.iastate.edu/SCRIPT/VCSVDPAM340X/scripts/serve_home.
Initiated Spring 2005.
4. VDPAM 478 Introduction to Swine Production Medicine
https://webct.ait.iastate.edu/SCRIPT/VDPAM478/scripts/serve_home.
Initiated Spring 2005.
5. VDPAM 480 Advanced Swine Production Medicine
https://webct.ait.iastate.edu/SCRIPT/VDPAM480/scripts/serve_home.
Initiated Spring 2005.

VETERINARY STUDENT ADVISING (8+)

1. Abby Patterson, Merck Summer Scholar. "Determination of acetylsalicylic acid and sodium salicylate product stability and achievable serum concentrations under typical nursery conditions." Summer 2004.
2. Samantha Frankovich, Merck Summer Scholar. Summer 2005
3. Stacy Lord, Merck Summer Scholar. Summer 2005
4. Travis Hargens, Merck Summer Scholar. Summer 2005
5. Ryan Scheafer, Merck Summer Scholar. Summer 2005
6. Daphne Reeves, DVM. Mississippi State Production Medicine Masters Student Preceptor. Summer 2004.
7. Faculty advisor. Student Chapter of the American Association of Swine Veterinarians. 2004-2005.
8. Faculty advisor. VSMART: Veterinary Student Mixed Animal Recruitment Team. 2004-2005.

GRADUATE STUDENT ADVISING – MAJOR PROFESSOR (3)

1. Abby Patterson. Master of Science – Veterinary Diagnostic and Production Animal Medicine. (2007)
2. Arturo Oropeza-Munoz. Master of Science – Veterinary Diagnostic and Production Animal Medicine. (2006)
3. Ruby Destajo. Master of Science – Veterinary Diagnostic and Production Animal Medicine. (2006)

GRADUATE STUDENT ADVISING – COMMITTEE MEMBER (3)

1. Mike Mullins. Doctor of Philosophy - Veterinary Microbiology and Preventive Medicine. (2008)
2. Dr. Ramon Miguel Molina. Doctor of Philosophy (2007)
3. Dr. (Alex) Sang-Ho Cha. Doctor of Philosophy. (2007)

MENTORING OF PRACTITIONERS

- New Veterinary Network – Monthly conference call among recent veterinary graduates practicing swine production medicine. Topics range from

employment issues to medicine. 12 regular participants. December 2, 2004 to present.

PROFESSIONAL PRACTICE STATISTICS

- October 1, 2003 to October 1, 2004
 - Client Contacts: 353
 - Site Visits: 55
 - Pigs Impacted: 1,109,144
 - U.S. States: 15
 - Countries: 4
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NATIONAL COMMITTEES (2)

1. National Animal Identification Task Force – Transition Subcommittee June – September, 2003
 2. National Commission on Veterinary Economic Issues – Large Animal Tools. Sept 19, 2004 to present.
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IOWA STATE UNIVERSITY COMMITTEES (1)

1. Iowa State University / Smithfield Foods Partnership Discussions. Smithfield, Virginia. October 6-7, 2004
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COLLEGE OF VETERINARY MEDICINE COMMITTEES (4)

1. Nebraska Proposal Task Force on Curricular Issues, VM3 and VM4. June 2005.
 2. Dean's Budget Reduction Task Force. Fall 2003
 3. 12th Annual Iowa State Swine Disease Conference Planning Committee. 2004
 4. Iowa Pork Industry Center Applied Research and Education Projects Grant Committee. September 2004.
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VETERINARY DIAGNOSTIC AND PRODUCTION MEDICINE DEPARTMENT COMMITTEES (3)

1. Search Committee. VDPAM Swine Production Medicine Position. Hired....

2. Search Committee. VDPAM Clinician. Hired Dr. James West. June 2005
3. Search Committee. Diagnostic Pathologist Position. Hired Dr. Christie Loiacono. Spring 2004

MEMBERSHIPS

- Iowa Veterinary Medical Association 2004 - Present
- Kansas Emergency Management Area VI FAD Preparedness Focus Group, 2003-2004
- Guymon Lions Club, 2001-2003.
- American Association of Swine Veterinarians, 1995-present.
- American Veterinary Medical Association, 1999-present.
- Mississippi State University Student Association: Senator representing College of Veterinary Medicine, 1998-1999.
- MSU Student Chapter of the American Veterinary Medical Association: Intervet representative, Treasurer, 1995-1999.
- Rho Chapter Alpha Psi Fraternity: Historian, National Delegate, 1995-1999.
- Food Animal Practitioners Group, 1995-1999.
- Honor Court Representative, 1995-1996.
- University of North Carolina Pre-Veterinary Club: Charter member, Vice President, President, 1991-1995.
- Pre-Health Professions Peer Advisor, 1994-1995.

CONTINUING EDUCATION

- Pfizer Animal Health 10th Annual Swine Seminar. Galena, Illinois. June 15-17, 2005. 6.25 hours CE from Iowa Board of Veterinary Medicine
- Purdue Swine Veterinary Educators Conference. May 11-12, 2004, Lafayette, IN.
- American Association of Swine Practitioners Annual Meeting. Des Moines, IA. March 2004.
- 2004 AVMA Animal Welfare Forum "Sow Housing and Welfare." Hoffman Estates, IL. November 5, 2004 7.5 hours.

COMPUTER SOFTWARE PROFICIENCIES

- PigChamp
- @RISK
- Microsoft Project
- Microsoft Visio
- Frontpage
- Filezilla
- IRIS Card Scanner
- Adobe Professional 6.0
- Respondus 3.0 Campus Wide
- StudyMate Campus Wide
- WebCT
- COGNOS
- Microsoft Office Programs
- Statistix
- Endnotes
- Windows Movie Maker
- JMP
- Sigma Plot

ADDITIONAL EMPLOYMENT EXPERIENCE

- Firefighter 1, Paid On-Call Staff, Guymon Oklahoma Fire Department 2001-2003
- Waltham Student Representative, Waltham, Inc., 1997-1998
- Photographer, Yakety-Yak, 1994-1995
- Assistant Supervisor, University of North Carolina Police Student Patrol 1991-1994.
- Public Safety Externship, Denver Colorado Police Department, 1992.
- Farm Hand, Sandy Ridge Hog Farm, Bolivia, North Carolina, 1987-1991. Responsible for all operations of forty sow farrow to feeder swine and grain farm.

ADDITIONAL TRAINING

- Animal Disease Threats Response Simulation Workshop, Division of Emergency Management, Kansas, 2002
- Continuous Quality Improvement Course, Center for Continuous Quality Improvement, Ames, Iowa, 2001
- Firefighter 1 Certification, Oklahoma State University Fire Training Service, 2001
- Hazmat Awareness Training, Oklahoma State University Fire Training Service, 2001
- Wildland Firefighter Certification, Oklahoma State University Fire Training Service, 2001
- Voyageur Outward Bound School, Boundary Waters Canoe and Wilderness Area, Minnesota, 1991. Outdoor survival school.

AWARDS

- Mississippi Veterinary Medical Association Graduate Award for Excellence in Economic and Performance Medicine, Mississippi State University College of Veterinary Medicine, 1999.
- Clinical Pathological Conference Award, Mississippi State University College of Veterinary Medicine, 1999.
- Leon Turner Award for Merit Demonstrated in General Pathology and Swine Medicine, Mississippi State University College of Veterinary Medicine, 1999.
- Fort Dodge Production Medicine Award, Mississippi State University College of Veterinary Medicine, 1999.
- Thomas C. Randolph Memorial Scholarship, Mississippi State University College of Veterinary Medicine, 1998.
- Morehead Scholarship, John Motley Morehead Foundation, University of North Carolina at Chapel Hill, 1995.
- North Carolina Merit Award, John Motley Morehead Foundation, University of North Carolina at Chapel Hill, 1991.

END
