



Sandra A. James-Yi, DVM, Ph.D., DABT, DABVT

Principal Consultant

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Background

Dr. Sandra James-Yi is a Toxicologist with more than 30 years of experience in private practice, academia, forensic science, and industry. She holds two doctorates, a Doctor of Veterinary Medicine (D.V.M.) and a Doctor of Philosophy (Ph.D.) in Natural Resources and Environmental Sciences. She is a diplomate of both the American Board of Toxicology and the American Board of Veterinary Toxicology and a member of the American Veterinary Medical Association, Society of Toxicology, Society of Toxicologic Pathology, and American College of Medical Toxicology.

Her expertise spans human, animal, and environmental exposure, and the resulting adverse effects, to a wide breadth of toxicants, including, but not limited to, plant-based toxins, zootoxins, pesticides, endocrine disruptors, fungal mycotoxins, quaternary ammonium compounds, heavy metals, smokeless tobacco products, foods, beverages, dietary supplements, personal care products, medical devices and recreational, nutritional, and prescription drugs.

She has extensive experience in veterinary medicine and surgery, veterinary medical toxicology and pathology, cancer research, human and animal nutritional and personal care product safety, as well as microbial, entomologic (insects), acarologic (ticks and mites), and vector-borne and zoonotic diseases.

In academia, Dr. James-Yi has held academic faculty positions developing the toxicology and pathology curricula for professional and graduate students and has been involved in multidisciplinary, collaborative, and intercollegiate research, as well as being responsible for public health and extension services.

In industry and forensic science, Dr. James-Yi has had extensive, national, and international experience in nutritional and personal care product safety and regulatory toxicologic oversight in the global value stream for ingredients, product development, and manufacturing. Her work has encompassed identifying vulnerable populations and risk assessment and management, with a special focus on pediatric nutrition, reproductive health, women's health, and aging populations. She has functioned as the global, corporate, technical, product safety lead over the life-cycle of products for internal stakeholders and cross-functional teams in marketing, regulatory affairs, research and development, clinical studies and product testing, manufacturing, education and outreach, medical affairs, product integrity, quality assurance/quality control, global ingredient supply-chain acquisition, legal affairs, emerging issues, and post-marketing surveillance teams. Her forensic experience also includes providing testimony in the United States court of law.

She is a subject matter expert and educator, skilled in comparative biomedical science, and risk assessment and management for dietary supplements, functional foods/nutraceuticals, beverages, personal care products (cosmetics and cosmetic devices), and research and development in nutritional, agricultural, and environmental toxicology for industry, academic institutions, and extension services for professionals and the public.

Professional Engagements

- **Veterinary Clinical Medicine and Medical Toxicology**

- Veterinary clinical medicine and surgery.
- Animal health and safety.
- Agricultural claims.
- Animal, wildlife, and veterinary claims
- Zoonotic disease (disease transmitted between humans and animals).
- Wildlife medicine and toxicology.

- **Dietary Supplements**

- Hazard identification and risk assessment of legacy and emerging ingredients and formulations for products intended for people and animals.

- **Food and Beverage Product Hazard Identification and Risk Assessment**

- **Personal Care Product Safety**

- Cosmetics and cosmetic devices.

- **Medical Entomology (disease caused by insects) and Acarology (disease caused by ticks and mites)**

- Human and animal exposure to scabies, fleas, and other internal and external parasites.
- Vector-borne disease.

- **Hazard Identification/Assessment of Risk and Associated Adverse Effects**

- Human, animal, and environmental toxicant exposure.
- Food, dietary supplement, and personal care product ingredient evaluation.
- Global nutritional supply chain risk assessment and risk management.

- **Companion and Agricultural Animal Health**

- Food animal safety and toxicology.
- Veterinary extension services.

- **Heavy Metal Exposure**

- **Pesticide Exposure**

- **Aquatic Marine and Freshwater Ecosystem Toxicology**

- Aquatic Toxicology – Mycotoxins, Collaborated with the Aquatic Animal and Fish Health, Department of Biomedical Sciences and Pathobiology, Virginia-Maryland College of Veterinary Medicine, and Virginia Polytechnic Institute, Blacksburg, Virginia, on a research project involving the pathologic effects of microcystin exposure in Tilapia.

- **Public Education Seminars**
- **Professional Veterinary Curriculum Development**
- **Wildlife Rehabilitation – Nutritional Toxicology**
 - Wildfoods 4 Wildlife (<https://wildfoods4wildlife.com/>) – Virginia, Worked with Ms. Kate Guenther, a forager and wildlife rehabilitator in Appalachia. Assisted in reviewing and preparing for the launch of her new website, Wildfoods 4 Wildlife. The site aims to bring a healthier, more varied, and natural diet to rescued wildlife of Virginia. Also, continue to provide consultation on the provision, storage, and safety of various natural food sources for wildlife.
- **Wildlife Rehabilitation – Veterinary Toxicological and Medical Consultant**
 - Freetown, Sierra Leone, As part of a multi-national, global effort to the Tacugama Chimpanzee Sanctuary, a group of world-renowned scientists and institutions have been working to identify and reduce morbidity and mortality rates in the resident chimpanzee population.
- **Entomology and Vector – Mediated Disease Reduction**
 - Integrated Pest Management – Crystal Lake, Illinois, Vice Chairman, Mosquito Abatement Ad Hoc Committee for the City of Crystal Lake, Illinois. Brought to the attention of the City Council, environmental safety and efficacy concerns with the city's mosquito abatement program. This led to the creation of an ad hoc committee to establish new guidelines for an improved Integrated Vector Management Program. The revised IPM program was unanimously passed by the City Council in the spring of 2001.

Forensic Engagements

- **Environmental Toxicology and the Effects on Human and Animal Health**
 - Environmental toxicology.
 - Aquaculture.
 - Inhalation toxicology: carbon monoxide and carbon dioxide.
 - Smoke and other combustible product inhalation.
 - Hydrocarbon exposure/volatile organic compounds.
 - Manure pit gas: swine.
 - Heavy metals: lead, thallium, and zinc exposure.
 - Zoonotic- and vector-borne disease.
- **Hospitality Industry**
- **Medical Entomology and Acarology**
 - Entomology/Vector – mediated Integrated Pest Management.
 - Human and animal exposure to scabies, fleas, bed bugs, dust mites, and other internal and external parasites.
- **Product Safety**
 - Dietary supplements and nutraceuticals.
 - Global nutritional supply chain risk assessment and risk management.
 - Foods and beverage contaminants.
 - Personal care products, including cosmetics and cosmetic devices.

- Hazard identification, risk assessment, and risk management of animal- and plant-based ingredients and products.
- Essential oils.
- **Dietary Supplements and Nutraceuticals**
 - Global nutritional supply chain risk assessment and risk management.
 - Dietary supplement product development and safe use.
- **Veterinary Medicine**
 - Veterinary medical toxicology.
 - Veterinary health and safety.
 - Veterinary clinical medicine and surgery.

Professional Experience

- **Rimkus** **2026 – Present**
 - Principal Consultant
Consultant in the Forensic and Toxicology and Food Safety Specialty groups.
- **Nu Skin Enterprise, LLC; Rhyz Inc.** **2021 – 2026**
 - Executive Director, Product Safety Compliance and Outreach, Corporate Compliance Leadership Team
Dietary Supplements, Personal Care Products, and Cosmetic Device oversight.
- **Rimkus Consulting Group, Inc.** **2020 – 2021**
 - Principal Consultant
Consultant in the Toxicology and Food Safety Specialty Group.
- **Mary Kay, Inc.** **2018 – 2020**
 - Corporate Global Nutritional Toxicologist/Associate Principal Scientist, R&D, Corporate Product Safety Team
Technical Scientific and Diagnostic Lead Toxicologist supporting Medical Affairs, Regulatory, QA/QC, Manufacturing, and Nutritional Research and Development teams in the Asia-Pacific region.

Functioned as the nutritional/dietary supplement subject matter expert responsible for the provision of internal and external, global customer support for new product development, ingredient substantiation, supply chain analysis, and risk assessment throughout a product’s lifecycle as the company expanded into emerging global markets.
- **NOW Health Group, Inc.** **2016 – 2018**
 - Senior Medical Scientist/Toxicologist
Developed, managed, and worked cross-functionally to establish robust Safety Portfolios and ingredient substantiations for all ingredients present in legacy and emerging products. This included all personal care products, dietary supplements, nutraceuticals, and essential oils for both human and veterinary products.

Worked closely with all internal and external customers for evaluation, response, and reporting of potential product complaints and adverse events to the appropriate government regulatory authorities.

Individual contributor for internal customers, such as occupational safety, customer service, international regulatory, QA/QC, legal, marketing, sales and marketing, and research and development teams.

- **Virginia – Maryland College of Veterinary Medicine, Virginia Polytechnic Institute** **2013 – 2016**
 - Assistant Professor, Toxicology - Department of Biomedical Sciences and Pathobiology
Section head for the Toxicologic Research and Diagnostic Laboratory. Responsible for delivering high-quality consulting, diagnostic, and analytical services, as well as publicizing and expanding the capabilities of the laboratory supporting the College of Veterinary Medicine teaching hospital; collaborative research across colleges at the Virginia Polytechnic Institute and State University; Agricultural Extension agents and farming operations; regional services for clinicians and private citizens that included the states of Virginia, Maryland, the District of Columbia, West Virginia, and North Carolina; and the Commonwealth of Virginia's State Diagnostic Laboratory, Department of Environmental Equality, and law enforcement agencies.

Course leader, responsible for developing and teaching the Veterinary Toxicology core curricula and clinical laboratory services for the professional development of senior veterinary students in preparation for boards, clinics, and as future veterinarians in government, industry, private practice, and academia.
- **WuXi AppTec** **2013**
 - Pathologist
WuXi AppTec is a contract research organization (CRO) providing a broad array of services for the development and manufacture of products in the medical device and pharmaceutical industry. Core responsibilities included, but were not limited to, providing pathology services for risk assessment, biocompatibility, safety, and toxicology testing under GMP, GLP, and ISO 10993 quality systems.
- **Masonic Cancer Center, Comparative Pathology Shared Resource Laboratory (CPSR), University of Minnesota, Minneapolis – St. Paul** **2011 – 2012**
 - Postdoctoral Associate, Pathology
The CPSR is a core laboratory to provide comprehensive pathology support and consultation for the research needs of the Masonic Cancer Center and University of Minnesota investigators. Responsible for all aspects of gross and histological evaluation of tissues, development of immunohistochemistry protocols, study design, data analysis, and management of activities of other personnel integral to the success of any given project. Areas of expertise included, but were not limited to, respiratory, musculoskeletal, central nervous system, and hepatic system pathology with a focus on the pathology of cancer.
- **College of Veterinary Medicine, University of Illinois, Urbana - Champaign** **2008 – 2010**
 - Visiting Assistant Professor, Toxicology
 - Department of Comparative Biosciences
Department of Veterinary Pathobiology and the Veterinary Diagnostic Laboratory
Responsible for the development of a revised, integrated veterinary curriculum for General and Clinical Toxicology and the establishment of a Children's Environmental Health Center to assess the impact of chemicals such as BPA and phthalates in plastic food packaging and personal care products on children's health.
 - Toxicologic Pathology Resident/Post-doctoral Study Director training - Covance Laboratories, Madison, Wisconsin
Responsible for non-clinical safety assessment at various stages of drug development. This included protocol development, in-life and animal health oversight, data review, report writing, client communications, and interaction with project management, in-life staff, toxicologists, analytical chemists, veterinarians, and the many other personnel that were involved with the successful initiation and completion of studies. This

was accomplished under policies and standard operating procedures associated with a global regulatory environment.

- **College of Agriculture, Consumer and Environmental Sciences, University of Illinois, Urbana-Champaign** **2003 – 2008**
 - Research Assistant - Department of Natural Resources and Environmental Sciences (2004-2008)
Application of water mite fauna as indicators of pollution, biodiversity, and sustainability in freshwater ecosystems.
 - Research Assistant – Medical Entomology Laboratory, Illinois Natural History Survey, University of Illinois, Urbana–Champaign and the Champaign-Urbana Encephalitis Prevention Program (2003-2004)
As part of the development of the research for my Ph.D. thesis, we collected, identified, and tested mosquitoes from all regions across the state of Illinois, surveying for the presence of vector-mediated diseases such as West Nile Virus, St. Louis encephalitis virus, and other major viral encephalitides. This was done in collaboration with the Champaign – Urbana Encephalitis Prevention Program.
- **Clinical Veterinary Practice** **1990 – 2004**
 - Associate Veterinarian
Small and Exotic Animal Medicine and Surgery, Emergency and Critical Care Veterinarian in clinics within the Northern Illinois, Chicagoland Region, including Fox Valley Animal Hospital, Helping Paws Animal Shelter, and Animal Medical Center in Crystal Lake, Illinois; Vernon Hills Animal Hospital in Mundelein, Illinois; and Golf – Mil Animal and Bird Hospital in Niles, Illinois.
- **Ahilama Veterinary Clinic, Kaneohe, Hawaii** **1988**
 - Associate Veterinarian
Ambulatory, mixed animal medicine and surgery, and specialization in Equine medicine, surgery, and theriogenology.

Education and Certifications

- **Diplomate of the American Board of Veterinary Toxicology (DABVT)**, since 2015
- **Diplomate of the American Board of Toxicology, Inc® (DABT)**, since 2014
- **Postdoctoral Associate, Pathology:** Masonic Cancer Center, Comparative Pathology Shared Resource Laboratory, University of Minnesota, Minneapolis – St. Paul (2011-2012)
- **Postdoctoral Associate, Toxicology Residency/Study Director Training:** Covance Laboratories, Madison, Wisconsin and the University of Illinois, Urbana – Champaign (2008-2010)
- **Doctor of Philosophy (Ph.D.), Natural Resources and Environmental Sciences:** University of Illinois, Urbana – Champaign (2008)
 - Thesis title: Systematics, Ecology and Distribution of Water Mites (Acari: Parasitengonina): The Application of water mite fauna as indicators of pollution, biodiversity, and sustainability in freshwater ecosystems
- **Postdoctoral Associate, Residency Training, Anatomic Pathology:** University of Illinois, Urbana – Champaign (2004-2005)
- **Doctor of Veterinary Medicine (D.V.M.):** College of Veterinary Medicine, University of Illinois, Urbana – Champaign (1988)
- **Biochemistry, B.S.:** University of Illinois, Urbana - Champaign (1984)
- **Veterinary Medical Licensure:** Hawaii, Illinois, and Minnesota

Professional Memberships

- **American Board of Veterinary Toxicology (DABVT):** Committees include Education, Board Certification, Long-term Strategic Planning
- **American Board of Toxicology, Inc.® (DABT)**
- **Society of Toxicology:** Specialty Sections - Food Safety, Occupational and Public Health, Regulatory and Safety Evaluation, Comparative Toxicology, Pathology and Veterinary Medicine, Clinical and Translational Toxicology, Dermal Toxicology, Risk Assessment, Medical Device and Combination Products
- **Society of Toxicologic Pathology**
- **American Veterinary Medical Association**
- **American College of Medical Toxicology:** Committees include Industry, Government, Public Health, Occupational, Environmental, and Forensics
- **Society of Cosmetic Chemists**
- **Council for Responsible Nutrition:** Melatonin Task Force; GRAS Task Force; Industry Self-Regulation Review Working Group for Dietary Ingredients (2021-2026)

Continuing Education

- **American Association of Veterinary Laboratory Diagnosticians:** Annual meeting in conjunction with the United States Animal Health Association (2020, 2016, 2014, 2010)
- **American College of Medical Toxicology:** National Grand Rounds National Case Conference and courses such as “Agents of Opportunity”: Toxic Radiologic Materials, Toxic Industrial Chemicals and Toxic Industrial Materials, and the Agents of Opportunity for Terrorism Specialty Module: Nerve agent Exposure (2020-Present); Covid-19 webinars (2020)
- **Charles Louis Davis DVM Foundation:** Toxicologic Pathology (2021); Laboratory Animal Science Seminar and the Pathology of Laboratory Animals, 2015, Blacksburg, VA (2015), Descriptive Veterinary Pathology Course, University of Minnesota, College of Veterinary Medicine, St. Paul, MN (2013)
- **Council for Responsible Nutrition:** Workshop -Controlling Contaminants in Supplements (April 2025); Annual Conference (2021); International Symposium on Women’s Health: Optimal Nutrition throughout the Lifecycle (2021)
- **Covance Laboratories:** Midwestern Toxicologic Pathology Seminar on Hepatotoxicity, Madison, WI (2011)
- **Global Health Security Initiative:** Workshop on Recovery from a Chemical Incident (2022)
- **International Symposium on Poisonous Plants:** 10th symposium, St. George, UT (2018)
- **National Institutes of Health:** Office of Dietary Supplement Seminars – Year-long seminar series
- **Ohio State University, College of Food, Agricultural, and Environmental Sciences:** Ohio Sea Grant: Freshwater Science: Removing algal toxins from drinking water with activated carbon (2022)
- **Society of Toxicology (SOT):** Specialty section webinars (2022-2026); Dermal Toxicology Specialty Section: Dermal Absorption and Toxicology in vitro (2022); Annual Conference, Baltimore, MD (2019, 2017); Annual Conference, San Antonio, TX (2018); Annual Conference, New Orleans, LA (2016)
- **Society of Toxicologic Pathology:** Annual Meeting - Focus on neuropathology, Chicago, IL (2025)
- **Society of Toxicologic Pathology/American College of Veterinary Pathologists/American Society for Veterinary Clinical Pathology:** Meeting, Minneapolis, MN (2015)
- **Society of Toxicologic Pathology/International Federation of Societies of Toxicologic Pathologists:** Joint symposium in Neuropathology, Chicago, IL (2010)
- **The Center for Forensic Science Research and Education (CSFRE):** Year-long seminar series

- **University of Illinois College of Veterinary Medicine:** 9th Industrial Toxicology and Pathology Short Course; Toxicology and Pathology in drug discovery and development; Contemporary concepts in target organ toxicologic pathology: Renal and Respiratory systems, Urbana-Champaign, IL (2012); 8th Toxicology and Pathology in Drug Discovery and Development; Contemporary Concepts in Target Organ Toxicologic Pathology: Hepatobiliary and Cardiovascular Systems, Urbana, IL (2009); Translational Biomedical Seminar Series, Urbana, IL (2008-2010)
- **Verus Global:** Pathways to Leadership® Program sponsored by Mary Kay, Inc. (2018-2019)
- **Other:** Seminar in Forensic Toxicology (2021); Supply Side West, Las Vegas, NV (2017); Pet Poison Helpline Webinars (2014-2026)

Peer Reviewer

- National Toxicology Program (NTP) Technical Report on the Toxicity Studies of *o*-Chloropyridine (CASRN 109-09-1) Administered Dermally and in Drinking Water to F344/N Rats and B6C3F1/N Mice: Toxicity Report 83 [Internet], 2017.

Publications

- James-Yi S, Hilmas CJ, and Fabricant DS (2019). **Risk Assessment, Regulation and the Role of Biomarkers for the Evaluation of Dietary Ingredients Present in Dietary Supplements (Chapter 39)**, In Biomarkers in Toxicology, 2nd edition, Ramesh Gupta (ed.), Academic Press, Waltham, MA.
- Adkesson MJ, Levengood JM, Scott JW, Schaeffer DJ, Panno B, Langan JN, Cárdenas-Alayza S, and James-Yi S. (2018). **Analysis of toxic and essential elements in the blood and feathers of Humboldt penguins (*Spheniscus humboldti*) at Punta San Juan, Peru.** Journal of Wildlife Diseases 55(2):438 – 443.
- Adkesson MJ, Levengood JM, Scott JW, Schaeffer DJ, Langan JN, Cárdenas-Alayza S, de la Puente S, Majluf P, and Yi S. (2018). **Assessment of polychlorinated biphenyls, organochlorine pesticides, and polybrominated diphenyl ethers in the blood of Humboldt Penguins (*Spheniscus humboldti*) from the Punta San Juan marine protected area, Peru.** Journal of Wildlife Diseases 54(2): 304-314.
- Balbo, S, Johnson, CS, Kovi, RC, James-Yi, SA, O'Sullivan, MG, Wang, M, Le, CT, Khariwala, SS, Upadhyaya, P, and Hecht SS. (2014). **Carcinogenicity and DNA adduct formation of 4-(methylnitrosamino)-1-(3-pyridyl)-1-butanone and enantiomers of its metabolite 4(methylnitrosamino)-1-(3-pyridyl)-1-butanol in F-344 rats (2014).** Carcinogenesis 35 (12): 2798 - 806.
- Balbo S, James-Yi S, Johnson CS, O'Sullivan MG, Stepanov I, Wang M, Kassie F, Carmella S, Upadhyaya P, and Hecht SS (2013). **(S)-N'-Nitrosornicotine, a Constituent of Smokeless Tobacco, is a Powerful Oral Cavity Carcinogen in Rats.** Carcinogenesis 34(9):2178 – 83.
- Yi SA, Francis BM, Jarrell WM, and Soucek DJ (2011). **Toxicological effects of the aquatic herbicide, fluridone, on male water mites (Hydrachnidia: Arrenurus: Megaluracarus).** Ecotoxicology 20(1):81-7.

Presentations and Teaching Engagements

- Invited guest speaker: American College of Medical Toxicologists, Industry Group Section. Title: **“One Health: People, Animals and the Environment, Indivisible”** (October 2025)
- Invited guest speaker: Agricultural Claims Association 2-day webinar on “Life After Dicamba”. Title: **Herbicide Exposure, Assessing the Risk of Adverse Health Effects** (December 2020)
- Invited guest speaker: **IB 435, Critical Evaluation of Herbal Remedies, The application of Translational Veterinary and Human Toxicology to Dietary Supplement Risk Assessment**, University of Illinois at Urbana-Champaign (April 2018 and 2019).

- Invited guest lecturer: **Virginia Agro-terrorism Agro-security Conference**, presented by the Virginia Department of Agriculture and Consumer Services (VDACS), FBI Norfolk/Richmond, and Virginia-Maryland College of Veterinary Medicine, Blacksburg, VA (May 2015).
- Invited guest lecturer: CDC/NIOSH, Morgantown, West Virginia, on the **Oral Cavity Carcinogenicity of the Smokeless Tobacco Constituent (S)-N'-Nitrosonornicotine** (2014).
- Course Leader Veterinary Medicine 8424, Veterinary Toxicology Basic and clinical toxicology for second-year students at the Virginia-Maryland Regional College of Veterinary Medicine, Virginia Polytechnic Institute, Blacksburg, Virginia (2013 – 2016).
- Toxicology section leader for the Senior Veterinary students, Toxicology Laboratory Clerkships at the Virginia-Maryland Regional College of Veterinary Medicine, Virginia Polytechnic Institute, Blacksburg, Virginia (2013-2016).
- Lecturer for the **Environmental Toxicologic Pathology** section of the Cellular Pathology course, BMVS 5284, for pathology residents and graduate students at the Virginia-Maryland Regional College of Veterinary Medicine, Virginia Polytechnic Institute, Blacksburg, Virginia (2015-2016).
- Invited guest lecturer: Civil and Environmental Engineering, CEE 5124, for graduate students at the Virginia-Maryland Regional College of Veterinary Medicine, Virginia Polytechnic Institute, Blacksburg, Virginia (2016).
- Invited guest lecturer: The Chicago Zoological Society, Brookfield, Illinois, on **The Environmental Mobility of Toxicants in a Changing Environment** (2011).
- Consultant for Aquatic Toxicology and Disease Transmission, NRES 420, Restoration Ecology, Natural Resources and Environmental Sciences, University of Illinois, Urbana-Champaign: Course objectives were to assist undergraduate and graduate students in contracted, real-life projects to improve both rural and urban communities in landscape and structural hardscape design. The projects demonstrated how concepts in Environmental Sustainability could have strong and positive impacts on schools, businesses, and a general improvement in the quality of life for the surrounding communities by conserving and preserving natural resources. In addition, I was the curricula consultant for the predictive evaluation of how a changing environment would affect aquatic toxicology and disease transmission (2009-2010).
- Invited guest lecturer: Veterinary Biosciences 551, **Ecotoxicology of the Northern Hemisphere**, University of Illinois, Urbana – Champaign: Lecture addressed the effects of herbicides on the biodiversity of non-target species in various water ecosystems for veterinary and graduate students (2009-2010).
- Invited guest lecturer: Entomology 319, Integrated Pest Management, Graduate Level course in Integrated Pest Management (IPM), Department of Entomology, University of Illinois, Urbana – Champaign. Lecture title: **Veterinary IPM and the Pathology of Diptera**.
- Consultant for Aquatic Toxicology and Disease Transmission, NRES 420, Restoration Ecology, Natural Resources and Environmental Sciences, University of Illinois, Urbana-Champaign: Course objectives were to assist undergraduate and graduate students in contracted, real-life projects to improve both rural and urban communities in landscape and structural hardscape design. The projects demonstrated how concepts in Environmental Sustainability could have strong and positive impacts on schools, businesses, and a general improvement in the quality of life for the surrounding communities by conserving and preserving natural resources. In addition, was the curricula consultant for the predictive evaluation of how a changing environment would affect Aquatic Toxicology and Disease Transmission (2009-2010).
- Veterinary Medicine 605, Pathobiology I: As part of a newly restructured curriculum and educational initiative, developed and taught Basic and Clinical Toxicology for veterinary students at the University of Illinois, College of Veterinary Medicine, Urbana, Illinois (2009-2010).

- Senior editor for the development of an Analytical Toxicology teaching model in cooperation with the toxicologists and chemists at the Animal Disease Laboratory in Centralia, Illinois (2010).
- Pathobiology 669: Instruction of fourth-year Veterinary students at the University of Illinois/Veterinary Diagnostic Laboratory in Anatomical Pathobiology (2004-2005) and Diagnostic Toxicology (September 2008-2010).
- Veterinary Medicine 601, Clinical Practice I: Taught Toxicologic Pathology and sample technique to first- and second-year veterinary students at the University of Illinois, College of Veterinary Medicine, Urbana, Illinois (2010).
- Invited guest lecturer, Entomology 319, Integrated Pest Management, Graduate Level course in Integrated Pest Management (IPM), Department of Entomology, University of Illinois/Urbana-Champaign (2005). Lecture title: Veterinary IPM and the pathology of Diptera.