Vita of

Todd A. Anderson, Ph.D.

April 2024

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Todd Alan Anderson, Ph.D.

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The Institute of Environmental and Human Health (TIEHH)
Texas Tech University
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web: www.entx.ttu.edu/tanderson

BACKGROUND

AREAS OF SPECIALIZATION

Environmental Toxicology
Environmental Fate and Chemistry

EDUCATION

AAAS/EPA Environmental Science and Engineering Fellow	Washington, D.C. (1997)
Postdoctoral Research Associate	Iowa State University, Ames, IA (1992-1996)
Ph.D. Environmental Toxicology	The University of Tennessee, Knoxville, TN (1991)
M.S. Environmental Toxicology	The University of Tennessee, Knoxville, TN (1988)
B.S. Biology (*magna cum laude*)	Peru State College, Peru, NE (1986)

PROFESSIONAL EXPERIENCE

Texas Tech University

Department of Environmental Toxicology

- President's Excellence in Research Professor: 2018 - 2024
- Professor: 2008 - present
- Chair: 2013 - 2017
- Interim Chair: 2012 - 2013
- Associate Professor (Tenure): 2000 - 2008
- Graduate Officer: 2000 - 2006

Department of Biological Sciences

- Associate Professor (Tenure): 2000
- Assistant Professor: 1997 - 2000

The Institute of Environmental and Human Health (TIEHH)

- Core Faculty Member: 1997 - present
- Interim Director: 2012 - 2018
- Division Leader, Environmental Sciences and Toxicology: 2011 - 2012
- Assistant Director for Science: 2002 - 2006
- Assistant Section Leader, Analytical and Biochemical Toxicology: 1997 - 2002

Clemson University

The Institute of Wildlife and Environmental Toxicology (TIWET)

- Assistant Section Leader, Analytical/Environmental Chemistry: 1996 - 1997

Department of Environmental Toxicology

- Assistant Professor: 1996 - 1997

AAAS/EPA Environmental Science and Engineering Fellow

- U.S. EPA Technology Innovation Office: 1997 (Summer)

Iowa State University

Pesticide Toxicology Laboratory, Department of Entomology

- Affiliate Assistant Professor of Entomology and Toxicology, Graduate Faculty: 1994 - 1996

~ Temporary Instructor in Entomology and Toxicology, Graduate Faculty: 1993 - 1994
~ Postdoctoral Research Associate (with Dr. Joel Coats): 1992 - 1993

The University of Tennessee, Knoxville
Environmental Toxicology Program
~ U.S. Department of Energy Graduate Fellowship, Oak Ridge National Laboratory (ORNL), 1988 - 1991
Ph.D. Dissertation; "Comparative Plant Uptake and Microbial Degradation of Trichloroethylene in the Rhizospheres of Five Plant Species~Implications for Bioremediation of Contaminated Surface Soils"
Research Advisor: Dr. Barbara Walton, Environmental Sciences Division, ORNL

~ Graduate Student, Oak Ridge National Laboratory (ORNL), 1986 - 1988
M.S. Thesis; "Structure-Activity Relationships for the Degradation of a Mixture of Organic Chemicals in Soil"
Research Advisor: Dr. Barbara Walton, Environmental Sciences Division, ORNL

Oak Ridge National Laboratory
Environmental Sciences Division
DOE Summer Internship, 1986
"Organic Chemical Effects on Soil Microbial Respiration"
Research Advisor: Dr. Barbara Walton

Eppley Institute for Research in Cancer and Allied Diseases
Summer Internship, 1985
"Fundamental Studies with the Anti-tumor Drug *cis*-Platinum"
Research Advisor: Dr. Alan Eastman

Peru State College
Natural Sciences Division
1984 - 1986
"Monitoring Cockroach Populations for Effective Spraying Strategies"
Undergraduate Research Advisor: Dr. Larry Pappas

1983 - 1986
"Acid Precipitation in Southeastern Nebraska"
Undergraduate Research Advisor: Dr. David Pippert

MENTORING HISTORY

TEXAS TECH UNIVERSITY

Graduate Committees (Anderson Students in Bold)

Current Service

Haylie Browning, M.S. Committee, Forensic Sciences (Member)
Juliet Denapoli, M.S. Committee, Forensic Sciences (Member)
Carlos Mazariegos, M.S. Committee (Member)
Ramji Kandel, Ph.D. Committee (Member)
Zachery Kasuske, Ph.D. Committee (Member)
Kenneth Kikanme, Ph.D. Committee (Major Professor)
Morgan Eldridge, Ph.D. Committee (Co-Major Professor)

Past Service

Summary — M.S. Committee Chair or Co-Chair: 25; M.S. Committee Member: 45; Ph.D. Committee Chair or Co-Chair: 16; Ph.D. Committee Member: 68

Emmy Schniederjan, M.S. Environmental Toxicology, 2024 (Committee Member)
Farzanna Hossain, Ph.D. Environmental Toxicology, 2023 (Major Professor)
Thesis: "Acute and chronic toxicity of non-fluorinated firefighting foams to northern bobwhite quail (*Colinus virginianus*)"
Zhao Yang, Ph.D. Environmental Engineering, 2023 (Committee Member)
Ezinne Osuji, Ph.D. Biological Sciences, 2023 (Committee Member)
Frank Green, Ph.D. Environmental Toxicology, 2023 (Committee Member)
Angel Wilcox, M.S. Forensic Sciences, 2023 (Committee Member)
Andrea Celeste Medrano, M.S. Forensic Sciences, 2023 (Committee Member)
Anna Longwell, M.S. Environmental Toxicology, 2022 (Major Professor)
Thesis: "An evaluation of the chronic oral toxicity of fomtec enviro USP, a fluorine-free firefighting foam, to northern bobwhite quail (*Colinus virginianus*)"
Shawna Gallegos, Ph.D. Environmental Toxicology, 2022 (Committee Member)
Kaylin McDermett, Ph.D. Environmental Engineering, 2022 (Co-Major Professor)
Thesis: "PFAS fate and transport: Passive sampling, plant accumulation, and trophic transfer"
Dillon Huff, Ph.D. Environmental Toxicology, 2022 (Committee Member)
Anisha Navlekar, Ph.D. Biological Sciences, 2022 (Committee Member)
Kruuttika Satbhai, Ph.D. Environmental Toxicology, 2022 (Committee Member)
Alex Smith, Ph.D. Environmental Engineering, 2022 (Committee Member)
Ashley Newland, M.S. Forensic Sciences, 2022 (Committee Member)
Charles Oludare, M.S. Environmental Toxicology, 2021 (Committee Member)
Narayan Acharya, Ph.D. Environmental Toxicology, 2021 (Committee Member)
Nicole Dennis, Ph.D. Environmental Toxicology, 2021 (Major Professor)
Thesis: "Characterizing the chronic oral reproductive toxicity of per-and polyfluoroalkyl substances (PFAS) and their mixtures to terrestrial ecological receptors to inform ecotoxicological risk assessment of PFAS-impacted ecosystems"
Chandini Revanna, Ph.D. Environmental Toxicology, 2021 (Major Professor)
Thesis: "Aeroallergens in animal laboratories: Exploring innovative occupational control measures using advanced hydrated photo catalytic oxidation (AHPCO) technology"
Eric Peterson, Ph.D. Environmental Toxicology, 2021 (Committee Member)
Adam Finger, Ph.D. Environmental Toxicology, 2020 (Committee Member)
Steven Lasee, Ph.D. Environmental Toxicology, 2020 (Major Professor)
Thesis: "Three potential sources of per- and poly-fluoroalkyl substance exposure"
Christiana Wittmaack, Ph.D. Environmental Toxicology, 2020 (Committee Member)
Caitlin Cranston, M.S. Forensic Sciences, 2020 (Major Professor)
Thesis: "Bugs and drugs: Ketamine detection in necrophagous insects using gas chromatography-mass spectrometry"
Caleshia Summers Calvin, Ph.D. Environmental Toxicology, 2020 (Committee Member)
Armando Velazquez, Ph.D. Environmental Toxicology, 2020 (Committee Member)
Olushola Awoyemi, Ph.D. Environmental Toxicology, 2020 (Committee Member)
Giovanna Pagnozzi, Ph.D. Environmental Engineering, 2020 (Committee Member)
Naveen Kumar, Ph.D. Environmental Toxicology, 2019 (Committee Member)
Dimitrios Athanasiou, Ph.D. Environmental Engineering, 2019 (Committee Member)
Nataly Gomez, M.S. Forensic Sciences, 2019 (Major Professor)
Thesis: "Detection of metformin in dried blood on cotton cloth using QuEChERS procedure and liquid chromatography-mass spectrometry (LC-MS)"
Meijun Dong, Ph.D. Biological Sciences, 2019 (Committee Member)
Katy Shaw, Ph.D. Environmental Toxicology, 2019 (Committee Member)

Yu-Wei Chang, Ph.D. Environmental Toxicology, 2019 (Committee Member)
Lucy Lim, Ph.D. Environmental Toxicology, 2019 (Committee Member)
Michelle McManus, Ph.D. Environmental Toxicology, 2018 (Committee Member)
Ritesh Sevanthi, Ph.D. Environmental Engineering, 2018 (Committee Member)
Ryan Cleary, M.S. Environmental Toxicology, 2018 (Major Professor)
Thesis: "Exposure of contaminants to small mammals collected near a low-level radioactive waste site in the Amargosa desert, Nye County, NV."
Carmen Emborski, Ph.D. Environmental Toxicology, 2018 (Committee Member)
Will Thompson, M.S. Environmental Toxicology, 2018 (Major Professor)
Thesis: "Chronic toxicity of perfluoroheptanoic acid (PFHpA) and perfluorooctanoic acid (PFOA) to northern bobwhite (*Colinus virginianus*)."
Eric Peterson, M.S. Environmental Toxicology, 2018 (Committee Member)
Kia Hayes, M.S. Environmental Toxicology, 2018 (Committee Member)
Shanoy Anderson, Ph.D. Environmental Toxicology, 2018 (Committee Member)
Alex Wilson-Fallon, M.S. Environmental Toxicology, 2018 (Committee Member)
Maeghan Brundrett, Ph.D. Environmental Engineering, 2018 (Committee Member)
Jessica Mauricio, M.S. Environmental Toxicology, 2017 (Major Professor)
Thesis: "Effect of select perfluorinated compounds on hatching success of, and biomass accumulation in, the house cricket (*Acheta domesticus*)."
Steven Lasee, M.S. Environmental Toxicology, 2017 (Major Professor)
Thesis: "Plant uptake of six per- and poly-fluoroalkyl substances under maximum uptake conditions."
Richard P. Oates, Ph.D. Environmental Toxicology, 2017 (Committee Member)
Melissa Sandoz, M.S. Environmental Toxicology, 2017 (Committee Member)
Adric Olson, Ph.D. Environmental Toxicology, 2017 (Co-Major Professor)
Thesis: "An investigation into the toxicity, bioconcentration, and risk of perfluoroalkyl substances in aquatic taxa"
Ezinne Osuji, M.S. Biological Sciences, 2016 (Committee Member)
Evelyn Reategui-Zirena, Ph.D. Environmental Toxicology, 2016 (Co-Major Professor)
Thesis: "Effects of diet quality on cadmium toxicity and bioenergetics in the great pond snail, *Lymnaea stagnalis*"
Jacob Carrick, M.S. Environmental Toxicology, 2016 (Co-Major Professor)
Thesis: "Optimizing use of toxicity test data: censored data in species sensitivity distributions and temporal data in mixture studies"
Dan Dawson, Ph.D. Environmental Toxicology, 2016 (Committee Member)
Francis Loko, M.S. Environmental Toxicology, 2015 (Committee Member)
Nubia Estrada, Ph.D. Environmental Engineering, 2015 (Committee Member)
Rebecca Cochran, M.S. Environmental Toxicology, 2015 (Major Professor)
Thesis: "Evaluation of perfluorinated compounds in sediment, water, and passive samplers collected from Barksdale Air Force Base"
Thomas Bilbo, M.S. Environmental Toxicology, 2015 (Co-Major Professor)
Thesis: "Toxicological implications of the developmental environment in two *Aedes sp.* vector mosquitoes"
Kristina Kohl, M.S. Environmental Toxicology, 2015 (Major Professor)
Thesis: "Neonicotinoid insecticides: agricultural use, runoff, and invertebrate toxicity"
Kara Minton, M.S. Environmental Toxicology, 2015 (Committee Member)
Bridgette Fidder, M.S. Environmental Toxicology, 2015 (Committee Member)
Heather Lanza, M.S. Environmental Toxicology, 2015 (Major Professor)
Thesis: "Perfluorinated compound residues in biota collected near Barksdale Air Force Base, Bossier City, Louisiana, USA"
Donn Edwards, M.S. Environmental Toxicology, 2015 (Committee Member)
Morgan Wilming, Ph.D. Environmental Toxicology, 2014 (Committee Member)
Meghan Funkhouser, M.S. Environmental Toxicology, 2014 (Committee Member)
Brie Sherwin, Ph.D. Environmental Toxicology, 2014 (Major Professor)
Thesis: "An assessment of potential stressors to the dunes sagebrush lizard (*Sceloporus arenicolus*) habitat in western Texas and an analysis of the endangered species act (ESA) classification process"
Scott Weir, Ph.D. Environmental Toxicology, 2014 (Committee Member)
Catherine Baxter, M.S. Environmental Toxicology, 2013 (Committee Member)
Oliver Mulamba, Ph.D. Mechanical Engineering, 2013 (Committee Member)
Stephanie Plautz, Ph.D. Environmental Toxicology, 2013 (Committee Member)
David Kimberly, Ph.D. Environmental Toxicology, 2013 (Committee Member)
Justin Treas, Ph.D. Environmental Toxicology, 2013 (Committee Member)
Ife Bamqbose, M.S. Environmental Toxicology, 2013 (Major Professor)
Thesis: "Preliminary toxicity assessment of three plant-based biodiesels and diesel to terrestrial and aquatic organisms"
Richard Erickson, Ph.D. Environmental Toxicology, 2013 (Co-Major Professor)

Thesis: "Quantifying the impacts of toxicants on ecological populations"

Gaurav Pandey, M.S. Forensic Sciences, 2012 (Committee Member)
Bahar Amoli, Ph.D. Environmental Engineering, 2012 (Committee Member)
Kimberly Wooten, M.S. Environmental Toxicology, 2012 (Committee Member)
Babina Shrestha, Ph.D. Environmental Toxicology, 2012 (Committee Member)
Jamie Suski, Ph.D. Biological Sciences, 2012 (Committee Member)
Shibin Li, Ph.D. Environmental Toxicology, 2012 (Committee Member)
Tamara Luna, M.S. Environmental Toxicology, 2012 (Committee Member)
Lisa Arneson, M.S. Environmental Toxicology, 2012 (Major Professor)
Thesis: "A comparative study on the relative terrestrial toxicity of two gas-to-liquid (GTL) base oils to a low toxicity mineral oil (LTMO), a diesel, and a biodiesel"
Tim Kennedy, Ph.D. Environmental Engineering, 2012 (Committee Member)
Jiafan Wang, Ph.D. Environmental Toxicology, 2012 (Committee Member)
Sixuan Wang, M.S. Environmental Engineering, 2011 (Committee Member)
Darcy Chase, M.S. Environmental Toxicology, 2011 (Major Professor)
Thesis: "Occurrence and fate of synthetic musk fragrances in effluent and non-effluent impacted environments: detection in environmental matrices and implications for water policy"
Guangqiu Qin, Ph.D. Environmental Toxicology, 2011 (Committee Member)
Aran Tradel, M.S. Forensic Sciences, 2011 (Committee Member)
Rasesh Shah, Ph.D. Environmental Toxicology, 2011 (Co-Major Professor)
Thesis: "Analysis of effects of acetyl-l-carnitine and nerve growth factor on extracellular acetate uptake and acetylcholine formation and release in PC12 cells"
Etetor Roland Eshiet, Ph.D. Environmental Toxicology, 2010 (Committee Member)
Balaji Rao, Ph.D. Environmental Engineering, 2010 (Committee Member)
Adcharee Karnjanapiboonwong, Ph.D. Environmental Toxicology, 2010 (Major Professor)
Thesis: "Long-term fate of pharmaceuticals and personal care products in the environment"
Suhas Mohan, M.S. Environmental Engineering, 2010 (Committee Member)
Raghavendhran Avanasi, M.S. Environmental Toxicology, 2010 (Major Professor)
Thesis: "Environmental fate of C_{60}: Sorption to soil, desorption from soil, biodegradation and plant uptake studies"
Kathryn Brausch, M.S. Environmental Toxicology, 2010 (Committee Member)
Juliet Kinyua, M.S. Forensic Sciences, 2010 (Major Professor)
Thesis: "Temporal analysis of the cocaine metabolite, benzoylecgonine, in wastewater as an estimate of community drug abuse"
Simon Dinehart, Ph.D. Zoology, 2009 Oklahoma State University (Committee Member)
Rodica Gelca, Ph.D. Environmental Toxicology, 2009 (Committee Member)
Cameron Gulley, J.D./M.S. Environmental Toxicology, 2009 (Co-Major Professor)
Thesis: "Toxicity profile of *Stachybotrys chartarum*"
Deborah Carr, Ph.D. Environmental Toxicology, 2009 (Major Professor)
Thesis: "Biotransformation of estrogens and synthetic pharmaceuticals and personal care products in a sandy loam soil"
Mike Abel, Ph.D. Environmental Toxicology, 2009 (Committee Member)
Sameera Sanka, M.S. Environmental Engineering, 2009 (Committee Member)
Jinqiu Zhu, Ph.D. Environmental Toxicology, 2009 (Committee Member)
Bibek Sharma, Ph.D. Range, Wildlife, and Fisheries, 2008 (Committee Member)
Yuntian Tang, Ph.D. Environmental Toxicology, 2008 (Committee Member)
Piwen Wang, Ph.D. Environmental Toxicology, 2008 (Committee Member)
Jason Crawley, M.S. Environmental Engineering, 2007 (Committee Member)
QingSong Cai, Ph.D. Environmental Toxicology, 2007 (Committee Member)
Xiaoping Pan, Ph.D. Environmental Toxicology, 2007 (Committee Member)
Jennifer Humphries, Ph.D. Environmental Toxicology, 2007 (Committee Member)
Lindsey Jones, M.S. Environmental Toxicology, 2007 (Committee Member)
Jun Liu, M.S. Environmental Toxicology, 2007 (Committee Member)
Balaji Rao, M.S. Environmental Engineering, 2006 (Committee Member)
Baohong Zhang, Ph.D. Environmental Toxicology, 2006 (Major Professor)
Thesis: "Toxicity and bioavailability of explosive metabolites to invertebrates"
Sandeep Mukhi, Ph.D. Environmental Toxicology, 2006 (Committee Member)
Qiuqiong Cheng, Ph.D. Environmental Toxicology, 2006 (Major Professor)
Thesis: "Characterizing perchlorate exposure and effects in mammals"
Madhavi Billam, Ph.D. Environmental Toxicology, 2006 (Committee Member)
Hongxia Guan, M.S. Environmental Toxicology, 2006 (Committee Member)
Ted Wu, Ph.D. Environmental Chemistry, 2006 University of Alaska-Fairbanks (Committee Member)

Srinath Rajagopalan, Ph.D. Environmental Engineering, 2005 (Committee Member)
Sangeetha Balakrishnan, M.S. Environmental Engineering, 2005 (Committee Member)
Haitao Luo, Ph.D. Environmental Toxicology, 2005 (Committee Member)
Carrie Bradford, Ph.D. Environmental Toxicology, 2005 (Committee Member)
Jaclyn Cañas, Ph.D. Environmental Toxicology, 2005 (Major Professor)
Thesis: "The development and application of preconcentration/preelution ion chromatography methods for perchlorate determination in difficult matrices"
Andrea Kirk, Ph.D. Environmental Toxicology, 2005 (Committee Member)
Laxman Patil, M.S. Environmental Engineering, 2005 (Committee Member)
Corey Radtke, Ph.D. Environmental Toxicology, 2005 (Committee Member)
Scott Severt, M.S. Environmental Toxicology, 2004 (Committee Member)
Adam Finger, M.S. Environmental Toxicology, 2004 (Committee Member)
Sangeetha Arunagiri, M.S. Environmental Engineering, 2004 (Committee Member)
John Isanhart, M.S. Environmental Toxicology, 2004 (Committee Member)
Preethi Joseph, M.S. Environmental Engineering, 2004 (Committee Member)
Amy Hensley, M.S. Environmental Toxicology, 2004 (Committee Member)
Lu Yu, Ph.D. Environmental Toxicology, 2004 (Major Professor)
Thesis: "Evaluation of passive sampling devices as potential surrogates of perchlorate or heavy metal uptake in terrestrial plants"
Pinar Dogru, J.D./M.S. Environmental Toxicology, 2004 (Committee Member)
Anna Herboldsheimer, M.S. Environmental Toxicology, 2003 (Committee Member)
Tim Capps, J.D./M.S. Environmental Toxicology, 2003 (Committee Member)
Randy Apodaca, M.S. Environmental Toxicology, 2003 (Committee Member)
Kui Tan, Ph.D. Environmental Engineering, 2003 (Committee Member)
Thomas Rainwater, Ph.D. Environmental Toxicology, 2003 (Committee Member)
June-Woo Park, M.S. Environmental Toxicology, 2003 (Committee Member)
Carrie Bradford, M.S. Environmental Toxicology, 2002 (Co-Major Professor)
Thesis: "Perchlorate uptake and effects on thyroid function in fish"
Mindy Landrum, M.S. Environmental Toxicology, 2002 (Major Professor)
Thesis: "Effects of the perchlorate anion on *Eisenia fetida*"
Sarah Utley, J.D./M.S. Environmental Toxicology, 2002. (Committee Member)
Lu Yu, M.S. Environmental Toxicology, 2002 (Major Professor)
Thesis: "A comparative study of perchlorate uptake in terrestrial plants : Influence of plant type and soil nutrient concentration"
Andrew Moore, M.S. Environmental Toxicology, 2002 (Committee Member)
Jody Wireman, Ph.D. Environmental Toxicology, 2001 (Committee Member)
Brie DeBusk, J.D./M.S. Environmental Toxicology, 2001 (Major Professor)
Thesis: "Assessment of organochlorine pesticide residues in scutes from Morelet's crocodiles (*Crocodylus moreletii*) inhabiting Belize"
Christopher Pepper, J.D./M.S. Environmental Toxicology, 2001 (Major Professor)
Thesis: "Organochlorine pesticides in the chorioallantoic membrane of Morelet's crocodile eggs"
Mi-ae Jeon, M.S. Environmental Engineering, 2001 (Committee Member)
Sean Richards, Ph.D. Environmental Toxicology, 2000 (Committee Member)
Ted Wu, M.S. Environmental Toxicology, 2000 (Major Professor)
Thesis: "Evaluation of organochlorine residues in Morelet's and American crocodile eggs from Belize"
Hiroshi Awata, M.S. Environmental Toxicology, 1999 (Major Professor)
Thesis: "Evaluation of a passive sampling device as an indicator of available aged organochlorine pesticide residue in soil"
Philip Smith, Ph.D. Environmental Toxicology, 1999 (Committee Member)

Postdoctoral Advisees

Dr. Frank Green, Ph.D. from Texas Tech University, 2023
Dr. Seenivasan Subbiah, Ph.D. from Bharathiar University, 2015 - 2019
Dr. John Kasumba, Ph.D. from the University of Vermont, 2015 - 2017
Dr. Joe Mudge, Ph.D. from the University of New Brunswick, 2013 - 2014
Dr. Babina Shrestha, Ph.D. from Texas Tech University, 2013
Dr. Adcharee Karnjanapiboonwong, Ph.D. from Texas Tech University, 2010 - 2011 and 2015 - present
Dr. Baohong Zhang, Ph.D. from Texas Tech University, 2007
Dr. Namgoo Kang, Ph.D. from Purdue University, 2005 - 2006 (co-advised with Andrew Jackson)
Dr. Gopal Coimbatore, Ph.D. from Raman Research Institute, 2002 - 2003
Dr. Kang Tian, Ph.D. from Texas Tech University, 2001 - 2004
Dr. Yu-Jie Guo, Ph.D. from University of the Philippines, 2000 - 2001

Undergraduate Advisees

Rylee Mullen, Texas Tech University, Biology, 2021
Ricardo Lyons, Texas Tech University, Chemistry & Biochemistry, 2009 - 2010
Zachary Ramos, South Plains College, Mentor Tech and NIH Bridges Program, 2008 - 2009
Ankit Shah, South Plains College, Mentor Tech and NIH Bridges Program, 2008 - 2009
Jerry Mangold, Texas Tech University, Civil & Environmental Engineering, 2007
Matthew Meyer, University of Wisconsin-Madison, 2006 (Summer)
Christina Freitag, Texas Tech University Honors College, Howard Hughes Scholar, 2003 - 2006
Aaron Landreth, University of California-Davis, 2004
Audrey Atkinson, Texas Tech University Honors College, 2003 - 2004
Nick Miersma, Texas Tech University Honors College, Howard Hughes Scholar, 2000 - 2002
Jaclyn Cañas, Texas Tech University Honors College, Howard Hughes Scholar, 1999 - 2001
Honors Thesis: "Organochlorine contaminants in eggs: The influence of contaminated nest material"
Michelle Spoonemore, Texas Tech University, Environmental Conservation Major, 2000

Research Advisees/Visiting Scientists

Bhagya Chettipogu, TTU Graduate Student (Forensic Sciences), 2021 - 2023
Akinyinka Akinnusotu, Rufus Giwa Polytechnic Graduate Student, 2021
Natalia Gonzalez, Coronado High School, 2018
Dr. Magdalena Rakowska, TTU Environmental Engineering Postdoc, 2017
Daniel Erwin, University of North Texas Graduate Student, (Anthropology), 2015-2017
Dr. Etem Osma, Department of Biology, Erzincan University, 2014 - 2015
Juan Lopez, Andrews High School, 2014 - 2015
Dr. Piyush Malaviya, Department of Environmental Sciences, Jammu University, 2013 - 2014
Jason Bohenek, TTU Graduate Student (Biology), 2013 - 2014
Lauren Eveland, TTU Graduate Student (Biology), 2013 - 2014
Matt Pintar, TTU Graduate Student (Biology), 2013 - 2014
Tiffany Hopper, TTU Graduate Student (Biology), 2012 - 2013
Dr. Alon Silberbush, TTU Biology Department Postdoc, 2012 - 2013
Lucas Heintzman, TTU Graduate Student (Biology), 2012 - 2013
Anu Anele, TTU Graduate Student (ENTX), 2011 - 2013
Angela Sims, TTU Graduate Student (ENTX), 2010 - 2012
Sara Bell, TTU Graduate Student (Forensics), 2012
Zachary Gonzales, TTU Graduate Student (ENTX), 2011 - 2012
Nick Hines, Shallowater High School, 2011 - 2013
Fang Yu, Xiamen University Graduate Student, 2009 - 2011
Christian Candreva, O'Donnell High School, 2011
Rubeth Griffing, O'Donnell High School, 2011
Elissa Hernandez, El Paso Americas High School, 2010, 2011
Marcia Talkmitt, CISER Teacher Intern, Slaton High School, 2009 (Summer)
Jamie Suski, TTU Department of Biological Science Graduate Student, 2009 (Summer)
Nick Landes, TTU Department of Civil & Environmental Engineering Graduate Student (2008 - 2009)
Anna Hoffarth, University of North Texas, 2008 (Fall)
Chelsea Torres HHMI/CISER Intern, Roosevelt High School, 2007 (Summer)
Cassie Torres HHMI/CISER Intern, Roosevelt High School, 2007 (Summer)
Jing Wang, TTU Department of Chemistry Graduate Student, 2007 (Summer)
Marianne Dobrovolny, HHMI/CISER Intern, Roosevelt High School, 2006, 2007 (Summer)
Sateria Lozano, HHMI/CISER Intern, Roosevelt High School, 2006 (Summer)
Sreelatha Marisetty, TTU Department of Environmental Engineering Graduate Student, 2006 - 2007
Jennie Munster, SUNY-Stony Brook Graduate Student, 2006 - 2007
Gautam Aurora, TTU Department of Civil Engineering Graduate Student, 2004 - 2005
Dr. Dana Ghioca, TTU Department of Range & Wildlife Postdoc, 2005 (Fall)
Suzy Dunnum, HHMI/CISER Intern, Tahoka Middle School, 2005 (Summer)
Sati Patel, Lubbock High School, 2004 (Summer)
Mandar Nangare, TTU Department of Environmental Engineering Graduate Student, 2004
Annie Thomson, TTU Law School Student, 2002 - 2004
Melinda Redick, Oklahoma State University, 2003
Virginie Gillardin, University of Namur, 2003
Deb Kvanli, TTU Graduate Student (ENTX), 2002 - 2004

Melinda Redick, Oklahoma State University Graduate Student, 2002 (Fall)
Raina Ellis, TTU Graduate Student (ENTX), 2001 (Fall)
Sharon Williams, TTU Graduate Student (ENTX), 2001 - 2002
Deni Sobek, ARP/ATP Science Teacher Intern, Monterey High School, 2000 (Summer)

Graduate School Dean's Representative for Ph.D. Defenses

Samantha Barker, Ph.D. Animal and Food Sciences, 2024
Behnaz Jalili, Ph.D. Environmental Engineering, 2022
Kelly Vierck, Ph.D. Animal and Food Sciences, 2020
Tea Vrtlar, Ph.D. Environmental Engineering, 2018
Haley Schneider, Ph.D. Environmental Engineering, 2017
Dylan Christenson, Ph.D. Environmental Engineering, 2017
Elizabeth Farley-Dawson, Ph.D. Biological Sciences, 2017
Paul Broadway, Ph.D. Animal and Food Sciences, 2014
Hui Clevenger, Ph.D. Nutritional Sciences, 2014
Tyson Brown, Ph.D. Animal and Food Sciences, 2014
Yen Te Liao, Ph.D. Animal and Food Sciences, 2013
Eric Collins, Ph.D. Mechanical Engineering, 2013
Marko Davinic, Ph.D. Plant and Soil Science, 2012
Jerrad Legako, Ph.D. Animal and Food Sciences, 2011
Hugo Mantilla-Meluk, Ph.D. Biological Sciences, 2009
Jennifer Huddleston, Ph.D. Biological Sciences, 2008
Shannon Torrence, Ph.D. Range, Wildlife, & Fisheries Science, 2007
Yining Wang, Ph.D. Chemistry, 2007
P. Kalyani Martinelango, Ph.D. Chemistry, 2006
Carl W. Dick, Ph.D. Zoology, 2005
Jeffrey H. Mikus, Ph.D. Animal Science, 2004
Rida Al-Horr, Ph.D. Chemistry, 2003
Cody Edwards, Ph.D. Biological Sciences, 2000

CLEMSON UNIVERSITY

Graduate Committees

Deborah P. Shupack, M.S. Environmental Toxicology, 1997 (Co-Major Professor)
Emilia I. Cruz-Li, M.S. Environmental Toxicology, 1997 (Committee Member)
Janet M. Bouknight, M.S. Environmental Toxicology, 1997 (Committee Member)
Jennifer M. Wallin, M.S. Environmental Toxicology, 1997 (Committee Member)

IOWA STATE UNIVERSITY

Graduate Committees

Ellen L. Kruger, Ph.D. Toxicology, 1996 (Co-Major Professor)
Pamela J. Rice, Ph.D. Toxicology, 1996 (Co-Major Professor)
Patricia J. Rice, Ph. D. Toxicology, 1996 (Co-Major Professor)

Mentor, Program for Women in Science and Engineering

- Elizabeth Edmondson, Kennedy High School, Cedar Rapids, IA 1995
- Avanti J. Rao, Wellesley College 1995
- Brenda S. Perkovich, Texas A&M University 1994

SERVICE

PROFESSIONAL SERVICE

SERDP Scientific Review Panel (Ecotoxicity of Mixtures of Per- and Polyfluoroalkyl Substances), 2021
PeerJ – Academic Editor in Environmental Science (2017 - 2022)
NIH National Library of Medicine Strategic Planning Panel on *Advancing Biomedical Discovery and Translational Science*, 2017
Howard Hughes Medical Institute (HHMI) Professors Program, Stage 1 Review Panel, 2016-2017
Nominator (Environment), 19th Annual Heinz Awards, Heinz Family Foundation, 2012
AAAS Research Competitiveness Service
King Abdulaziz City for Science and Technology, Toxicology & Environmental Health Review Panel 2010, 2013
Interim Iraqi Center for Science & Industry (IICSI) and Civilian Research & Development Foundation (CRDF)
Environmental Assessment of Tuwaitha Site Workshop, 2005
U.S. EPA Scientific Review Panel (Phytoremediation), 2001
USDA SBIR Scientific Review Panel 2001, 2004
Kluwer Academic Publishers' **Environmental Pollution Book Series** - Advisory Board (1998 - 2008)
NIH National Library of Medicine Standing Scientific Review Panel, 1997 - 2020
Hazardous Substances Data Bank
Environmental Protection Agency Remediation Technologies Development Forum (RTDF)
Phytoremediation of Organics Action Team
Environmental Toxicology and Chemistry
- Associate Editor, Environmental Chemistry (2002 - 2015)
- Editorial Board (1994 - 1996; 1999 - 2001)
Water, Air, and Soil Pollution - Associate Editor, Soil Ecosystems and Pesticides (1997 - 2003)
Water, Air, and Soil Pollution Focus - Associate Editor, (2001 - 2003)
International Journal of Phytoremediation - Editorial Board (1998 - 2007)

Ad hoc reviewer:
Air Quality, Atmosphere and Health
American Association for the Advancement of Science
American Chemical Society Symposium Series Books
Analytica Chimica Acta
Applied Food Research
Applied Soil Ecology
Archives of Environmental Contamination and Toxicology
Biologia Futura
Biotechnology and Bioengineering
Brazilian Journal of Pharmaceutical Sciences
British Journal of Applied Science & Technology
City University of New York (CUNY) Internal Research Program Proposals
CRDF International Science and Technology Center Proposals
Critical Reviews in Plant Sciences
Current Pollution Reports
Ecotoxicology
Ecotoxicology and Environmental Safety
Education University of Hong Kong General Research Fund Early Career Proposals
Environmental Monitoring and Assessment
Environmental Pollution
Environmental Science and Pollution Research
Environmental Science & Technology (ES&T)
ES&T Letters
Environmental Science: Nano
Environmental Toxicology and Chemistry
Groundwater
Hudson River Foundation Proposals
International Journal of Environmental Research and Public Health
International Journal of Phytoremediation
J. Wiley Publishers
Journal of Agricultural and Food Chemistry
Journal of Chromatography
Journal of Contaminant Hydrology
Journal of Environmental Quality
Journal of Immigrant and Minority Health

Journal of Microbiological Methods
Journal of Toxicology and Environmental Health
Journal of Wildlife Diseases
Journal of Zhejiang University Science A
Kentucky Science and Engineering Foundation (KSEF) Proposals
Kuwait Foundation for the Advancement of Science (KFAS)
Maejo International Journal of Science and Technology
Monatshefte für Chemie - Chemical Monthly
National Research Foundation of South Africa Proposals
National Science Centre (Poland) Proposals
National Science Foundation Proposals
NSF CAREER Proposals
Natural Sciences & Engineering Research Council of Canada Proposals
Nevada EPSCoR Program Proposals
PeerJ
Pest Management Science
PLOS One
Science of the Total Environment
Scientific Reports
SERDP Program Proposals
Soil Science Society of America Book Series
Soil Science Society of America Journal
Soil Biology and Biochemistry
South Carolina Competitive Grants Program
Southwest Respiratory and Critical Care Chronicles
Swiss National Science Foundation Proposals
Talanta
Taylor and Francis, CRC Press
Texas Journal of Science
U.S. Army Corps of Engineers ERDC Proposals
U.S. Civilian Research & Development Foundation Program Proposals
U.S. Department of Agriculture SBIR Program Proposals
U.S. Department of Agriculture Multi-state Research Project Proposals
Vacuum
Water, Air, and Soil Pollution

Member, American Academy of Environmental Engineers & Scientists (AAEES)
Board Certified Environmental Scientist (BCES) *by eminence*, 2014 - present
Environmental Chemistry Committee, 2017 - 2020

Member and *Fellow*, Society of Environmental Toxicology and Chemistry (SETAC)
41st Annual Meeting (SciCon$_2$) Program Committee, 2020
Awards and Fellowships Committee, 1998 - 2004
24th Annual Meeting Program Committee, Platform Co-Chair, 2003
- South Central Regional Chapter 1998 - present
  Board of Directors, 2001 – 2018
  Regional Meeting (Junction, TX) Co-Chair, 2018
  Regional Meeting (Junction, TX) Co-Chair, 2010
  Regional Meeting (Lubbock, TX) Program Committee, 2002
- Carolinas Regional Chapter 1996 - 1997
  Poster Session Chair, 1997 Regional Meeting
- Ozark-Prairie Regional Chapter 1992 - 1996

Member, American Chemical Society (ACS)
- Agrochemicals Division
  Executive Committee, 2010 - 2015
  Member at Large, 2003 - 2006
- Environmental Chemistry Division
  Selection Committee, *James J. Morgan ES&T Early Career Award* 2015
  Chair, Awards Committee 1997 - 2018
  Alternate Councilor, 2009 - 2015; 2018 - present
  Executive Committee, Member at Large 1999 - 2006
- South Plains Local Section

Selection Committee, *E. Ann Nalley Award for Volunteer Service* 2017
Immediate Past Chair, 1999
Chair, 1998

Member, American Society for Microbiology (ASM)
- South Carolina Branch Chapter, 1996 - 1997

Member and *Fellow*, American Association for the Advancement of Science (AAAS)
Member, Sigma Xi
Symposia Organized and/or Chaired: > 28 (American Chemical Society, SETAC)
Workshops/Webinars Conducted: 2 (3rd International Phytoremediation Conference; ThermoFisher Scientific)

External Evaluator Invitations

Faculty Member, University of Georgia, Promotion to Full Professor (2023)
Sitharanjan Kalidass, Ph.D. Student in Chemistry, Bharathiar University, India (2023)
Malathi Devi Sundaramoorthy, Ph.D. Student in Chemistry, Anna University, India (2023)
C.T. Anuradha, Ph.D Student in Physics, Anna University, India (2023)
Faculty Member, Baylor University, Promotion to Full Professor (2022)
Baskaran Thangagiri, Ph.D. Student in Science and Humanitics, Anna University, India (2021-2022)
Sara Zafar, Ph.D. Student in Zoology, University of the Punjab, Pakistan (2021-2022)
Faculty Member, Government College University Lahore, Pakistan, Promotion to Full Professor (2021)
Faculty Member, University of the Punjab, Mid Probationary Review (2020)
Faculty Member, Lincoln Memorial University, Promotion and Tenure (2020)
Faculty Member, West Texas A&M University, Peer Teaching Evaluation for early Promotion and Tenure (2020)
Mehwish Nasir, Ph.D. Student in Zoology, University of Sargodha, Pakistan (2019-2020)
Faculty Member, Texas A&M University-Corpus Christi, Promotion and Tenure (2019)
Staff Scientist, Savannah River Ecology Laboratory, Promotion to Senior Research Scientist (2019)
Faculty Member, University of Georgia, Promotion to Full Professor (2019)
Iram Inayat, Ph.D. Student in Zoology, University of Sargodha, Pakistan (2019-2020)
Faculty Member, Oklahoma State University, Promotion to Full Professor (2018)
Dhanakodi Kirubakaran, Ph.D. Student in Plant Chemistry, Bharathiar University, India (2017-2018)
Faculty Member, Middle Tennessee State University, Promotion to Full Professor (2017)
Faculty Member, University of North Texas, Promotion to Full Professor (2017)
Ummara Batool, Ph.D. Student in Zoology and Fisheries, University of Agriculture Faisalabad, Pakistan (2016-2017)
Jagadish Rajan, Ph.D. Student in Chemical Technology, Bharathiar University, India (2016-2017)
Faculty Member, UCLA David Geffen School of Medicine, Appointment Step III (2015)
Faculty Member, Charles Drew University of Medicine & Science, Appointment Step III (2015)
Faculty Member, Virginia Polytechnic Institute & State University, University Research Award (2014)
Staff Scientist, U.S. Department of Agriculture, Performance Review (2014)
Faculty Member, Baylor University, Promotion to Full Professor (2014)
Faculty Member, Tulane University, Promotion and Tenure (2014)
Muhammad Kanwal, Ph.D. Student in Biological Sciences, University of Sargodha, Pakistan (2014)
Faculty Member, Virginia Polytechnic Institute & State University, Promotion to Full Professor (2013)
Faculty Member, Baylor University, Promotion and Tenure (2013)
Faculty Member, Charles Drew University of Medicine & Science, Appointment Step II (2013)
Faculty Member, Oklahoma State University, Promotion and Tenure (2012)
Faculty Member, Middle Tennessee State University, Promotion and Tenure (2012)
Ph.D. Student in Biological Sciences, University of Sargodha, Pakistan (2012)
Faculty Member, Texas Christian University, Promotion and Tenure (2012)
Faculty Member, University of North Texas, Promotion and Tenure (2011)
Faculty Member, East Carolina University, Appeal of Tenure Denial (2011)
Faculty Member, Oregon State University, Promotion to Full Professor (2008)
Faculty Member, University of Florida, Promotion and Tenure (2006)
Staff Scientist, U.S. Department of Agriculture, Performance Review (2006)

UNIVERSITY SERVICE

Texas Tech University

University Committee Assignments

- Evaluator, Faculty Travel Grant Program
  December, 2019
- Evaluator, Graduate Student Research Support Program

February, 2019
October, 2018
February, 2018

- Laboratory Safety Working Group (appointed by the Provost and VP for Research)
  Panel Member, 2010
- Radiation and Laser Safety Committee (appointed by the Provost)
  Associate Chair, 2003 - present
  Member, 1998 - 2003
- Panel Member, Texas Tech University Thesis/Dissertation Workshop
  March, 2011
  October, 2004
  February, 2003
- Selection Committee, Texas Tech University Chancellor's Distinguished Research Award
  October, 2014
  October, 2006
  November, 2004
- President's Water Initiative Advisory Council
  Panel Member, 2005
- Interviewer, TTU/HHMI New Scholar Applicants
  October, 2006
- College of Arts & Sciences Senator, Texas Tech University Faculty Senate
  2007 - 2010
- Task Force on Anti-Terrorism and Public Security
  Panel Member, Subcommittee on Homeland Security Degree Programs, 2002
- Student Association of The Institute of Environmental and Human Health (TIEHH)
  Faculty Advisor, 1999 - present

College of Arts & Sciences Committee Assignments

- Tenure and Promotion Committee (appointed by the Dean of Arts & Sciences)
  2018 - 2021
- Search Committee Chair (appointed by the Dean of Arts & Sciences)
  Chair of the Department of Biological Sciences, 2018 - 2019
- Search Committee Member (appointed by the Dean of Arts & Sciences)
  Director of The Institute of Environmental and Human Health (TIEHH), 2016 - 2017
- Search Committee Member (appointed by the Dean of Arts & Sciences)
  Chair of the Department of Mathematics & Statistics, 2015 - 2016
- Endowed Position Review Committee Member (appointed by the Dean of Arts & Sciences)
  John G. Skelton, Jr. Endowed Professorship, Department of Psychological Sciences 2015
- College Institutional Effectiveness Committee, 2015 - 2016
  Appointed by the Dean of Arts & Sciences

TIEHH/Department of Environmental Toxicology Committee Assignments (current and former)

- Facility Resources (Fix-It Pool) Committee
- Awards and Fellowships Committee
- Executive Advisory Committee
- Tenure and Promotion Committee
- Graduate Student Selection Committee
- Space Committee
- Student Fellowship Committee
- Co-Chair, Environmental Law Joint Degree Committee
- Graduate Curriculum Committee
- Search Committee, "Director, The Institute of Forensic Science"
- Search Committee Chair, "Environmental Chemist Faculty Position"
- Search Committee Chair, "Aquatic Toxicologist Faculty Position"
- Search Committee, "Ecological Toxicologist Faculty Position"
- Search Committee, "Molecular Toxicologist Faculty Position"
- Search Committee, "Research Director, Zumwalt Program for Countermeasures Against Biological and Chemical Threats"

Department of Biological Sciences Committee Assignments

- Graduate Student Selection Committee 1999 - 2000
- Non-majors Environmental Biology Committee 1997 - 1998
- Recycling Committee 1997 - 1998

South Plains Regional Science and Engineering Fair 1998, 2004
- Judge (1st and 2nd Rounds)

Tech Prep/School-To-Careers Partnership, Regional Counselors Network 2000
- Panel Member

Student Research Conference, Eastern New Mexico University 1998
- Presentation Judge

International Science and Engineering Fair 1998
- Special Awards Judge (SETAC)

Clemson University

Department of Environmental Toxicology Committee Assignments
- Computer Advisory Committee 1996 - 1997

Graduate Student Research Forum 1997
- Poster Session Judge

Iowa State University

College of Agriculture Visiting Professor Program, 1993 - 1996

Department of Entomology Committee Assignments
- Student Awards and Scholarships 1994 - 1996
- Social 1994-1996

Environmental Awareness Training for Visiting Bolivian Scientists
- Pesticides in the Environment Module

SCHOLARLY ACHIEVEMENTS

AWARDS & HONORS

Texas Tech University College of Arts & Sciences Excellence in Research Award, 2024
Fellow, Society of Environmental Toxicology and Chemistry (SETAC), 2021
Stanford University and Elsevier's Top 2% of Scientists Worldwide, Career List 2021, 2022, 2023
PeerJ Silver Level (Top 0.3%) Contributor 2021
Faculty Development Leave, Baruch Institute of Coastal Ecology and Forest Science, Clemson University 2020
Society of Environmental Toxicology and Chemistry (SETAC) Outstanding Regional Chapter Member Award 2018
Presidential Research Excellence Professorship 2018, 2021
Barnie E. Rushing, Jr., Faculty Distinguished Research Award 2018
TÜBITAK Fellowship for Visiting Scientists, Erzincan University (Turkey) 2015
Provost's Integrated Scholar, Texas Tech University 2014
Champion of Women (COW) Award, West Texas-Association for Women in STEAM 2009, 2020
SERDP Environmental Restoration Research Project of the Year 2007
"Identification and Characterization of Natural Sources of Perchlorate"
Guest Professor, Henan (China) Institute of Science and Technology 2006
Environmental Science & Technology Environmental Science Paper of the Year, 2005; **(39:1569-1575)**
Fellow, American Association for the Advancement of Science (AAAS), 2005
Chancellor's Distinguished Research Award, Texas Tech University 2004
College of Arts & Sciences' Nominee 2002, 2004
President's Excellence in Teaching Award, Texas Tech University 2003
TIEHH/ENTX Outstanding Faculty Award 1999, 2001, 2002, 2003, 2008, 2010, 2014, 2016, 2018, 2022, 2023
Sigma Xi Southwest Regional Young Investigator Award 1999, 2001
AAAS/EPA Environmental Science and Engineering Fellowship, 1997 (Summer)
Poster of Merit, 12th Annual Conference on Hazardous Waste Research, 1997
Society of Environmental Toxicology and Chemistry (SETAC) Roy F. Weston Environmental Chemistry Award, 1996
U.S. Department of Energy Faculty Research Travel Program, Savannah River Site, 1996
Society for Technical Communication, Merit in Scholarly/Professional Articles, 1995
American Chemical Society (Ames Section) Travel Grant, 1993
Society for Technical Communication, Merit in Scholarly/Professional Articles, 1992
SETAC Platform Presentation Competition, 2nd Place, 1991
Oak Ridge National Laboratory Graduate Student Participation Program, 1991
SETAC Foundation for Environmental Education Graduate Student Travel Award, 1991
American Chemical Society Environmental Chemistry Graduate Student Paper Award, 1991
Sigma Xi Graduate Student Paper Competition, The University of Tennessee, 2nd Place, 1991
U.S. Department of Energy Graduate Research Fellowship, 1989 - 1990
American Chemical Society Environmental Chemistry Graduate Student Award, 1989
The University of Tennessee Chancellor's Citation for Extraordinary Professional Promise, 1989
U.S. Department of Energy Professional Internship, Oak Ridge National Lab, 1988 - 1989 & 1990 - 1991
Graduate Research Assistantship, The University of Tennessee, 1987 - 1988
Graduate Teaching Assistantship, The University of Tennessee, 1986 - 1987
Oak Ridge National Laboratory Summer Research Fellowship, 1986
Who's Who Among American Colleges and Universities, 1985 - 1986
Eppley Cancer Institute Summer Research Internship, 1985
Laurine Anderson Tri-Beta Scholarship, Peru State College, 1985
Peru State College Honor Roll, 1982- 1986
Albert Brady Scholarship, Peru State College, 1983, 1984, 1985
1982 - 1983 CRC Press Chemistry Achievement Award, Peru State College
State of Nebraska Board of Trustees Scholarship, Peru State College, 1982 - 1986

INVITED PRESENTATIONS AND PAPERS (since joining Texas Tech University)

- Invited by the search committee to present a seminar on the chemistry of pesticides as a finalist for the **Director of the Food Safety & Environmental Stewardship Laboratory** at Oregon State University in Corvallis, OR – November, 1998.
- Invited to present a paper on bioavailability assessments in soil at the *Wildlife Applications in Remediation Decision Making Symposium* in Denver, CO – August, 1999.
- Invited to present a paper on a chemical test for biological availability of aged pesticides at the 7th *Symposium on the Chemistry and Fate of Modern Pesticides* in Lawrence, KS – September, 1999.

- Invited by the Brazos River Authority (BRA) to brief Congressman Chet Edwards (Texas) on our ongoing research related to perchlorate ecotoxicology in Washington, DC – May, 2000.
- Invited by the Editor-in-Chief to submit a manuscript on determining biological availability of aged chemicals in soil for a special issue of the *International Journal of Environmental Analytical Chemistry* – 2000.
- Invited by the Brazos River Authority (BRA) to present some of our Caddo Lake perchlorate research to BRA and the U.S. Army Corps of Engineers in Ft. Worth, TX – January, 2001.
- Invited by the editors to contribute a chapter on biotic and abiotic interactions in the rhizosphere for a new book entitled *Interactions Between Soil Particles and Microorganisms and their Impact on the Terrestrial Environment* – 2001.
- Invited by the editor to contribute a chapter on biological sampling of wildlife for a book entitled *Handbook of Residue Analytical Methods for Agrochemicals* – 2002.
- Invited by the search committee to present a seminar on the history of pesticides as a finalist for the **Robert S. Kerr Endowed Chair in Environmental Science** at East Central University in Ada, OK – April, 2002.
- Invited to present a paper on the fate and effects of contaminants in ecosystems at the *6th International Symposium on the Geochemistry of the Earth's Surface* (GES-6) in Honolulu, HI – May, 2002.
- Invited to present a paper on perchlorate toxicology at the *East Valley Water District Perchlorate Conference* in Ontario, CA – October, 2002.
- Invited to present a seminar on graduate opportunities in environmental toxicology at Nicholls State University in Thibodaux, LA – February, 2004.
- Invited by the editor to contribute a chapter on enhanced microbial degradation of pesticides for the *Encyclopedia of Pest Management* – 2004.
- Invited to present a paper on perchlorate analytical measurements in difficult matrices at the *Pittsburgh Conference (PITTCON)* in Chicago, IL – March, 2004.
- Invited by the search committee to present a seminar on the history of pesticides as a finalist for the **Director of the Institute for Environmental Studies** at Western Illinois University in Macomb, IL – March, 2005.
- Invited by the Civilian Research and Development Foundation (CRDF) to present a seminar on the environmental chemistry of radionuclides at the *Environmental Assessment of Tuwaitha Site Workshop* in Amman, Jordan – July, 2005.
- Invited by the Editor-in-Chief to submit a review on current understanding of phytoremediation for a special issue of *Critical Reviews in Plant Sciences* – 2005.
- Invited by the organizing committee to present a paper on invertebrate toxicity of energetic materials at the *American Chemical Society Agrochemicals Division Award Symposium Honoring Joel Coats* in Atlanta, GA – March, 2006.
- Invited by the editors to contribute two chapters on perchlorate effects on invertebrates and perchlorate environmental fate for a new book entitled *Perchlorate Ecotoxicology* – 2006.
- Invited by the Editor-in-Chief to submit a manuscript on photochemical formation of perchlorate for a special issue of the journal *Analytica Chimica Acta* – 2006.
- Invited by the Editor-in-Chief to submit a manuscript on the determination of perchlorate in biological tissues and fluids for a special issue of the journal *Analytica Chimica Acta* – 2006.
- Invited by the editors to contribute a chapter on occurrence and formation of non-anthropogenic perchlorate for a new book entitled *Perchlorate Environmental Occurrence, Chemistry, Toxicology, and Remediation Technologies* – 2006.
- Invited to present a seminar on graduate opportunities in environmental toxicology at Wayland Baptist University in Plainview, TX – February, 2007.
- Invited by CropLife America to present a seminar on pesticide environmental toxicology at Bayer CropScience in Research Triangle Park, NC – September, 2007.
- Invited to present a paper on the use of passive sampling devices in assessing energetic residues in soil in a symposium at the *28th Annual Meeting of the Society of Environmental Toxicology and Chemistry (SETAC)* in Milwaukee, WI – November, 2007.
- Invited by the editors to contribute a chapter on the ecotoxicology of energetic materials for a new book entitled *Wildlife Toxicology: Emerging Contaminant and Biodiversity Issues* – 2009.
- Invited to present a paper on the environmental impacts of oil/dispersant mixtures at the *106th Gulf Coast Conference* in Galveston Island, TX – September, 2010.
- Invited to present a seminar (via teleconference) on risks associated with pharmaceuticals and personal care products in recycled wastewater to the Texas Department of Health – June, 2011.
- Invited by the U.S. Air Force Civil Engineer Center to present a seminar on bioavailability assessments in soils to the *Tri-Service Environmental Risk Assessment Workgroup* in San Antonio, TX – August, 2011.
- Invited by the organizing committee to present a paper and serve on an expert panel related to real world environmental experiences at the *Texas Aggregates and Concrete Association (TACA) Annual Meeting* in San Antonio, TX – September, 2012.
- Invited to present a research seminar on the environmental evaluation of energetic materials in soil at Oklahoma State University in Stillwater, OK – October, 2012.
- Invited by the organizing committee to present a paper on pharmaceuticals and personal care products in recycled wastewater applied to land at the *Michigan Water Environment Association Conference* in Detroit, MI – March, 2013.
- Invited to present (via webinar) beta testing results on the evaluation of a new sample prep material developed by

ThermoFisher – October, 2013.

- Invited by NASA to present a paper on our naturally occurring perchlorate research in the *Perchlorate on Mars Symposium and Workshop* in Moffett Field, CA – December, 2014
- Invited by The Scientific and Technological Research Council of Turkey (TÜBITAK) to present two seminars on pesticides in the environment and climate change at Erzincan University in Erzincan, Turkey – August, 2015.
- Invited by the search committee to discuss (via Skype) interdisciplinary research as a semi-finalist for the **Director of the School of Biological Sciences** at the University of Nebraska – December, 2015.
- Invited by the Editor-in-Chief to submit a manuscript on our microplastics research for a special issue of the journal *Integrated Environmental Assessment and Management* – 2016.
- Invited by Dr. İlyas Çapoğlu, Rector (President) of Erzincan University, to present a seminar and collaborate on nanomaterial research in Erzincan, Turkey – September, 2017.
- Invited by the section chair to give the plenary talk at the *South Plains Local Section of the American Chemical Society (ACS)* Awards Banquet – April, 2018.
- Invited by the Director to give the opening plenary talk of the academic year at TC Kemah Erzincan University Vocational School in Kemah, Turkey – September, 2019.
- Invited by the organizing committee to present a paper in a symposium on characterizing exposure for the Agrochemicals Division of the *American Chemical Society* in Atlanta, GA – August, 2021.
- Invited to present a seminar on our environmental chemistry research at the University of California-Riverside in Riverside, CA – May, 2022.
- Invited to present a seminar (via Zoom) on microplastics research at the Texas Tech University School of Veterinary Medicine in Amarillo, TX – October, 2022.

MENTORED STUDENT HONORS

Various university, regional, and national honors awarded to graduate students while under my supervision.

Student	*Degree*	*Honor*
Kenneth Kikanme	Ph.D.	TTU Graduate School Travel Award, 2023
Morgan Eldridge	Ph.D.	TTU Graduate School Travel Award, 2023 SETAC North America 43rd Annual Meeting Attendance Grant, 2022 James D. and Mary Hazlewood Memorial Graduate Fellowship, 2022-2023
Farzana Hossain	Ph.D. 2023	Outstanding Doctoral Student in Environmental Toxicology, 2nd Place, 2023 TTU Graduate School Dissertation Completion Fellowship, 2023 Honorable Mention, American Chemical Society Environmental Chemistry Graduate Student Award, 2022 Outstanding Doctoral Student in Environmental Toxicology, 2nd Place, 2022 Raiders Defending Life Parenting Scholarship, 2021 Texas Public Education Grant, 2021
Anna Longwell	M.S. 2022	SETAC North America 43rd Annual Meeting Attendance Grant, 2022
Nicole Dennis	Ph.D. 2021	Outstanding Doctoral Student in Environmental Toxicology, 2021 TIEHH Alumni Scholarship, 2020-2021 SETAC North America SciCon2/41st Annual Meeting Attendance Grant, 2020 Outstanding Masters Student in Environmental Toxicology, 2020 American Chemical Society Environmental Chemistry Graduate Student Award, 2020 SETAC Foundation for Environmental Education Travel Award, 2019 Water Conservation Research Scholarship, 2019 TIEHH Alumni Scholarship, 2018-2019
Chandini Revanna	Ph.D. 2021	American Academy of Allergy, Asthma & Immunology (AAAAI) Ph.D. Travel Scholarship, 2018
Steven Lasee	Ph.D. 2020 M.S. 2017	TTU Graduate School Travel Award, 2019 Terracon Foundation Scholarship, 2018 PBPA Outstanding Masters Student in Environmental Toxicology, 2017 Terracon Foundation Scholarship, 2015
Nataly Gomez	M.S. 2019	Institute for Forensic Sciences Outstanding Masters Student, 2019

Ryan Cleary	M.S. 2018	TIEHH Alumni Scholarship, 2016-2017
Will Thompson	M.S. 2018	SETAC Foundation for Environmental Education Travel Award, 2017 Terracon Foundation Scholarship, 2017 Graduate Recruitment Fellowship, 2016-2017
Jessica Mauricio	M.S. 2017	Terracon Foundation Scholarship, 2017 SETAC Foundation for Environmental Education Travel Award, 2016 University Scholars Leadership Symposium-Vietnam, 2016 The CH Foundation Graduate Fellowship, 2015-2016
Adric Olson (co-advised)	Ph.D. 2017	SETAC South Central Chapter YES Travel Award, 2016 Terracon Foundation Scholarship, 2015 SETAC Foundation for Environmental Education Travel Award, 2013
Jacob Carrick (co-advised)	M.S. 2016	SETAC Foundation for Environmental Education Travel Award, 2016 Terracon Foundation Scholarship, 2014, 2015 TIEHH Alumni Scholarship, 2014-2015
Evelyn Reategui-Zirena (co-advised)	Ph.D. 2016	Terracon Foundation Scholarship, 2016 Grants-in-Aid for Research Award (TTU Graduate Student Advisory Council), 2015 Texas Tech Alumni Association Student Leadership Award, 2015 Paul Whitfield Horn Award (University Women's Club), 2015 SETAC Foundation for Environmental Education Travel Award, 2014 Outstanding Oral Presentation, National SACNAS Conference, 2014
Thomas Bilbo (co-advised)	M.S. 2015	PBPA Outstanding Masters Student in Environmental Toxicology, 2015 Terracon Foundation Scholarship, 2014 Helen DeVitt Jones Graduate Fellowship, 2014-2015
Rebecca Cochran	M.S. 2015	SETAC Foundation for Environmental Education Travel Award, 2014 2nd Place Platform Presentation, South Central SETAC 2014
Kristina Kohl	M.S. 2015	Terracon Foundation Scholarship, 2014 Talkington Graduate Fellowship, 2014-2015
Heather Lanza	M.S. 2015	2nd Place in Science II, Texas Tech Graduate Student Research Poster Competition, 2015 Phi Kappa Phi Love of Learning Award, 2015 1st Place Presentation, Texas Tech Annual Biological Sciences Symposium, 2015 SETAC Foundation for Environmental Education Travel Award, 2014 Syngenta Outstanding Masters Student in Environmental Toxicology, 2014 2nd Place Presentation, Texas Tech Annual Biological Sciences Symposium, 2014 TIEHH Alumni Scholarship, 2013-2014
Brie Sherwin	Ph.D. 2014 M.S. 2001	1st Place Presentation, Texas Tech Annual Biological Sciences Symposium 2014
Ife Bamgbose	M.S. 2013	Texas Tech University Summer Thesis Research Fellowship, 2013 TTU Graduate School Travel Award, 2012 SETAC Foundation for Environmental Education Travel Award, 2012 Study Abroad Competitive Scholarship, Texas Tech University, 2012
Lisa Arneson	M.S. 2012	Texas Tech University Summer Thesis Research Fellowship, 2012 SETAC Foundation for Environmental Education Travel Award, 2011 1st Place Student Poster, South Central SETAC 2011 TTU Graduate School Travel Award, 2011 Preston and Ima Smith Endowed Graduate Scholarship, 2011-2012
Darcy Chase	M.S. 2011	Syngenta Outstanding Masters Student in Environmental Toxicology, 2011 Texas Tech University Summer Thesis Research Fellowship, 2011

		American Chemical Society, Environmental Chemistry Graduate Student Award, 2011 Graduate School Travel Award, 2010 SETAC Foundation for Environmental Education Travel Award, 2010 2nd Place Student Poster, South Central SETAC 2010 SETAC South Central Chapter FAIR Grant, 2010 Texas Tech University Water Conservation Research Fellowship, 2010-2011 Graduate School Travel Award, 2009
Rasesh Shah	Ph.D. 2011	Texas Tech University Summer Dissertation Research Fellowship, 2010 Texas Tech University Graduate Research Forum, 1st Place Poster, 2010
Raghavendhran Avanasi	M.S. 2010	2nd Place Student Poster, South Central SETAC 2009 Graduate School Travel Award, 2009 SETAC Foundation for Environmental Education Travel Award, 2009
Fa Karnjanapiboonwong	Ph.D. 2010	Texas Tech University Outstanding Dissertation Award, 2011 SETAC Minority Student Travel Award, 2010 Syngenta Outstanding Doctoral Student in Environmental Toxicology, 2010 Texas Tech University Summer Dissertation Research Fellowship, 2010 1st Place Student Poster, South Central SETAC 2010 American Chemical Society, Agrochemicals Division Honorable Mention Poster, 2010 West Texas Association for Women in Science Travel Award, 2010 Study Abroad Competitive Scholarship, Texas Tech University, 2009, 2010 American Chemical Society, Environmental Chemistry Graduate Student Award, 2010 American Chemical Society, Agrochemicals Division Travel Award, 2010 Texas Water Resources Institute Graduate Student Grant, 2009 GPSGA Graduate Student Travel Award, 2008 and 2010 SETAC Foundation for Environmental Education Travel Award, 2008
Deborah Carr	Ph.D. 2009	1st Place Student Poster, South Central SETAC 2009 Graduate School Travel Award, 2009 Texas Water Resources Institute Graduate Student Grant, 2009
Baohong Zhang	Ph.D. 2006	American Chemical Society, Agrochemicals Division Education Award, 2006 Syngenta Outstanding Doctoral Student in Environmental Toxicology, 2006 Texas Tech University Graduate Forum, 1st Place Poster, 2006 AAAS/*Science* Program for Excellence in Science, 2006 American Chemical Society, Environmental Chemistry Graduate Student Award, 2006 GPSGA Graduate Student Travel Award, 2005 SETAC Foundation for Environmental Education Travel Award, 2005
Qiuqiong Cheng	Ph.D. 2006	GPSGA Graduate Student Travel Award 2004, 2005 American Chemical Society, Environmental Chemistry Graduate Student Award, 2005 SETAC Minority Student Travel Award, 2004 ACS Agrochemical Division Education Award, 2004 SETAC Foundation for Environmental Education Travel Award, 2003
Jaclyn Cañas	Ph.D. 2005	Achievement Rewards for College Scientists-ARCS, 2002-2005 SETAC Minority Student Travel Award, 2004 Syngenta Outstanding Doctoral Student in Environmental Toxicology, 2004 TIEHH Toxicology Symposium, 2nd Place, 2004 SETAC Foundation for Environmental Education Travel Award, 2003 GPSGA Graduate Student Travel Award, 2003 ACS Agrochemical Division Education Award, 2003 American Chemical Society, Environmental Chemistry Graduate Student Award, 2003 NSF Graduate Research Fellowship Competition, Honorable Mention, 2001 and 2002 SBC Chancellor's Graduate Fellowship, 2001-2002
Lu Yu	Ph.D. 2004 M.S. 2002	Texas Tech University Summer Dissertation Fellowship, 2004 SETAC Foundation for Environmental Education Travel Award, 2003

		GPSGA Graduate Student Travel Award, 2003 ACS Environmental Chemistry Graduate Student Paper Award, 2003
Carrie Bradford (co-advised)	M.S. 2002	Best Paper by a Non-Lawyer; Law & Science Symposium, Texas Tech University, 2002 SETAC Foundation for Environmental Education Travel Award, 2001
Mindy Landrum	M.S. 2002	Texas Tech University Summer Thesis Fellowship, 2002
Chris Pepper	M.S. 2001	TIEHH Toxicology Symposium, 3rd Place, 2001
Ted Wu	M.S. 2000	American Chemical Society, Environmental Chemistry Graduate Student Award, 2000 SETAC Foundation for Environmental Education Travel Award, 2000
Hiroshi Awata	M.S. 1999	ACS Agrochemicals Division Travel Award, 1999 American Chemical Society, Environmental Chemistry Graduate Student Award, 1999
Debbie Shupack[A]	M.S. 1997	Clemson University Graduate Student Group Travel Award, 1997 SETAC Foundation for Environmental Education Travel Award, 1997 Honorable Mention Student Poster Award, Carolinas SETAC 1997
Ellen Arthur[B]	Ph.D. 1996	U.S. EPA Graduate Fellowship, 1995 Honorable Mention Young Scientist Award, ACS Agrochemicals Division 1995 American Chemical Society, Environmental Chemistry Graduate Student Award, 1993
Patricia Rice[B]	Ph.D. 1996	Honorable Mention Student Poster Award, Ozark-Prairie SETAC 1994 Honorable Mention Student Poster Award, Ozark-Prairie SETAC 1993
Pamela Rice[B]	Ph.D. 1996	Poster of Merit, 12th Annual Conference on Hazardous Waste Research 1997 SETAC Foundation for Environmental Education Travel Award, 1996 Honorable Mention Student Poster Award, Ozark-Prairie SETAC 1995 Young Scientist Research Award, ACS Agrochemicals Division 1993

[A]Clemson University
[B]Iowa State University

PUBLICATIONS

SUMMARY AND CITATION METRICS

Authored/co-authored 223 peer-reviewed journal articles and 23 book chapters. h-Index = 54 (***Scopus***), 67 (***Google Scholar***). As of April 2024, Dr. Anderson's published works have been cited: > 13,800 times (***Scopus***), > 22,000 times (***Google Scholar***). Publications include 5 journal covers, 1 feature article, 22 invited journal articles and book chapters, and *Environmental Science & Technology's* **2005 Environmental Science Paper of the Year**.

ResearchGate Profile: https://www.researchgate.net/profile/Todd_Anderson4
Google Scholar Profile: http://scholar.google.com/citations?user=QeNctMYAAAAJ&hl=en

Journal Cover Images

PEER-REVIEWED JOURNAL ARTICLES

223. Hossain, F., N.M. Dennis, S. Subbiah, A. Karnjanapiboonwong, J. Guelfo, J.G. Suski, and **T.A. Anderson**. 2024. Evaluation of the chronic reproductive toxicity of a fluorine-free firefighting foam and a short-chain fluorinated foam to northern bobwhite quail (*Colinus virginianus*). *Environmental Toxicology and Chemistry*. 43:211-221.

222. Wilbourn, E.K., S. Alrimaly, H. Williams, J. Hurst, G.P. McGovern, **T.A. Anderson**, and N. Hiranuma. 2023. Integrated science teaching in atmospheric ice nucleation research: immersion freezing experiments. *Journal of Chemical Education*. 100:1511-1522.

221. Hayes, K.R.R., G.M. Ylitalo, **T.A. Anderson**, J. Urbán, J.K. Jacobsen, J.J. Scordino, A.R. Lang, K.A. Baugh, J.L. Bolton, A. Brüniche-Olsen, J. Calambokidis, S. Martínez-Aguilar, S. Subbiah, M.O. Gribble, and C.A.J. Godard-Codding. 2022. Influence of life-history parameters on persistent organic pollutant concentrations in blubber of eastern North Pacific gray whales (*Eschrichtius robustus*). *Environmental Science & Technology*. 56:17119-17130.

220. Gharehveran, M.M., A.M. Walus, **T.A. Anderson**, S. Subbiah, J. Guelfo, M. Frigon, A. Longwell, and J.G. Suski. 2022. Per- and polyfluoroalkyl substances (PFAS)-free aqueous film forming foam formulations: chemical composition and biodegradation in an aerobic environment. *Journal of Environmental Chemical Engineering*. 10(6):e108953.

219. McDermett, K., **T.A. Anderson**, W.A. Jackson, and J. Guelfo. 2022. Assessing potential perfluoroalkyl substances trophic transfer to crickets (*Acheta domesticus*). *Environmental Toxicology and Chemistry*. 41:2981-2992.

218. Lasee, S., K. McDermett, N. Kumar, J. Guelfo, P. Payton, Z. Yang, and **T.A. Anderson**. 2022. Targeted analysis and total oxidizable precursor assay of several insecticides for PFAS. *Journal of Hazardous Materials Letters*. 3:e100067.

217. Hossain, F., N.M. Dennis, S. Subbiah, A. Karnjanapiboonwong, J. Guelfo, J.G. Suski, and **T.A. Anderson**. 2022. Acute oral toxicity of non-fluorinated firefighting foams to northern bobwhite quail (*Colinus virginianus*). *Environmental Toxicology and Chemistry*. 41:2003-2007.

216. McDermett, K.S., J. Guelfo, **T.A. Anderson**, D. Reible, and W.A. Jackson. 2022. The development of diffusive equilibrium, high-resolution passive samplers to measure perfluoroalkyl substances (PFAS) in groundwater. *Chemosphere*. 303:e134686.

215. Wilkinson, R.S., H.A. Lanza, A.D. Olson, J.F. Mudge, C.J. Salice, and **T.A. Anderson**. 2022. Perfluoroalkyl acids in sediment and water surrounding historical fire training areas at Barksdale Air Force Base. *PeerJ*. 10:e13054.

214. Gonzales, J.U., C. Clark, and **T.A. Anderson**. 2022. Effect of five nights of sleep extension on peripheral vascular function: a randomized crossover investigation into long sleep duration. *Sleep Medicine*. 90:145-152.

213. Dennis, N.M., F. Hossain, S. Subbiah, A. Karnjanapiboonwong, M.L. Dennis, C. McCarthy, W.A. Jackson, J.P. Crago, C.J. Salice, and **T.A. Anderson**. 2022. Species- and tissue-specific chronic toxicity values for northern bobwhite quail (*Colinus virginianus*) exposed to perfluorohexane sulfonic acid and a binary mixture of perfluorooctane sulfonic acid and perfluorohexane sulfonic acid. *Environmental Toxicology and Chemistry*. 41:219-229.

212. Estrada, N.L., **T.A. Anderson**, J.K. Böhlke, B. Gu, P.B. Hatzinger, S.J. Mroczkowski, B. Rao, N.C. Sturchio, and W.A. Jackson. 2021. Origin of the isotopic composition of natural perchlorate: experimental results for the impact of reaction pathway and initial ClO_x reactant. *Geochimica et Cosmochimica Acta.* 311:292-315.

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210. McCarthy, C., S.A. Roark, D. Wright, K. O'Neal, B. Muckey, M. Stanaway, J.N. Rewerts, J.A. Field, **T.A. Anderson**, and C.J. Salice. 2021. Toxicological response of *Chironomus dilutus* in single chemical and binary mixture exposure experiments with six perfluoralkyl substances. *Environmental Toxicology and Chemistry*. 40:2319-2333.

209. Sadeghi, S., **T.A. Anderson**, and W.A. Jackson. 2021. Determination of phosphite (HPO_3^{-2}) by a new IC/MS/MS method using an 18O-labeled HPO_3^{-2} internal standard. *Talanta*. 230:e122198.

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204. Malaviya, P., A. Singh, and **T.A. Anderson**. 2020. Aquatic phytoremediation strategies for chromium removal. *Reviews in Environmental Science and Bio/Technology*. 19:897-944.

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198. Arneson Westbrook, L., D.A. Chase, J. Mudge, S.A. Hughes, D. Lyon, M. Dong, D. Carr, and **T.A. Anderson**. 2020. Terrestrial toxicity of synthetic gas-to-liquid (GTL) versus crude oil-derived drilling fluids in soil. *Environmental Toxicology and Chemistry.* 39:721-730.

197. Lasee, S., S. Subbiah, W.A. Thompson, A. Karnjanapiboonwong, J. Jordan, P. Payton, and **T.A. Anderson**. 2019. Plant uptake of PFAAs under a maximum bioavailability scenario. *Environmental Toxicology and Chemistry.* 38:2497-2502.

196. Subbiah, S., A. Karnjanapiboonwong, J.D. Maul, D. Wang, and **T.A. Anderson**. 2019. Monitoring cyanobacterial toxins in a large reservoir: Relationships with water quality parameters. *PeerJ*. 7:e7305.

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191. Karnjanapiboonwong, A., S.K. Deb, S. Subbiah, D. Wang, and **T.A. Anderson**. 2018. Perfluoroalkylsulfonic and carboxylic acids in earthworms (*Eisenia fetida*): Accumulation and effects results from spiked soils at PFAS concentrations bracketing environmental relevance. *Chemosphere*. 199:168-173.

190. Bamgbose, I.A. and **T.A. Anderson**. 2018. Assessment of three plant-based biodiesels using a *Daphnia magna* bioassay. *Environmental Science and Pollution Research*. 25:4506-4515.

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187. Lanza, H.A., R.S. Cochran, J.F. Mudge, A.D. Olson, B.R. Blackwell, J.D. Maul, C.J. Salice, and **T.A. Anderson**. 2017. Temporal monitoring of PFOS accumulation in aquatic biota downstream of historical aqueous film forming foam use areas. *Environmental Toxicology and Chemistry.* 36:2022-2029.

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178. Bamgbose, I.A. and **T.A. Anderson**. 2015. Phytotoxicity of three plant-based biodiesels, unmodified castor oil, and Diesel fuel to alfalfa (*Medicago sativa* L.), lettuce (*Lactuca sativa* L.), radish (*Raphanus sativus*), and wheatgrass (*Triticum aestivum*). *Ecotoxicology and Environmental Safety*. 122:268-274.

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Kruger, E.L., **T.A. Anderson**, and J.R. Coats, Editors. 1997. *Phytoremediation of Soil and Water Contaminants*. American Chemical Society. Washington, D.C. 318 pp.

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Giddings, J. M., **T. A. Anderson**, L. W. Hall, R. J. Kendall, R. P. Richards, K. R. Solomon, W. M. Williams. 2000. Aquatic ecological risk assessment of atrazine-a tiered probabilistic approach. Novartis Crop Protection, Inc. Greensboro, NC. 449 pp.

Anderson, T. A. 1997. Development of a Phytoremediation Handbook: Considerations for Enhancing Microbial Degradation in the Rhizosphere. Environmental Science and Engineering Fellows Program. 1997 Reports. American Association for the Advancement of Science. Washington, DC. pp. 1-13.

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OTHER PUBLICATIONS (11)

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Anderson, T.A. 2004. Perchlorate Exposure and Absorption in Beef Cattle. Feed Info News Service. http://www.feedinfo.com. August 25th. **(Invited)**

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Walton, B. T., **T. A. Anderson**, and E. A. Guthrie. 1995. Response to comment on "Bioremediation in the Rhizosphere". *Environmental Science & Technology*. 29:552.

RESEARCH

EXTRAMURAL FUNDING

**Principal Investigator or Co-P.I. of Project

Texas Tech University

ESTCP. "Phytoremediation for Shallow Sources of Per- and Polyfluoroalkyl Substances (PFAS) Impacting Groundwater" 2023-2027. (With Mark Fuller, Yanna Liang, Paul Koster van Groos, and Graig Lavorgna) $24,000 (Grant total $800,000 contracted to APTIM Federal Services, sub-project to Anderson)

U.S. EPA. "Quantification and Modeling of Perchlorate Impacts from Fireworks on Drinking Water Sources" 2023-2026. (With Andrew Jackson, John Coates, Sarah Ledford, Balaji Rao, Neil Sturchio, Kimberly Van Meter, Jacimaria Batista) $2,499,583

ESTCP. "Demonstration of a High Resolution Passive Profiler (HRPP) for Characterizing the Distribution of PFAS in Groundwater" 2022-2024. (With Andrew Jackson, Jennifer Guelfo, Paul Hatzinger, David Lippincott, and Graig Lavorgna) $816,178

SERDP. "Supplemental Support for Multi-taxa Ecotoxicity of Novel Fluorine Free Foam versus New Generation Short Chain PFAS Aqueous Film Forming Foam Products" 2021-2024. (With Jamie Suski, Chris Salice, and Jennifer Guelfo) $112,358 (Grant total $346,323 contracted to EA Engineering, sub-project to Anderson and Guelfo)

SERDP. "Combustion Ion Chromatography Instrumentation for Analysis of Total Organic Fluorine in PFAS-Impacted Media" 2020-2025. (With Jennifer Guelfo and Andrew Jackson) $56,684

SERDP. "Multi-taxa Ecotoxicity of Novel Fluorine Free Foam versus New Generation Short Chain PFAS Aqueous Film Forming Foam Products" 2020-2023. (With Jamie Suski, Chris Salice, and Jennifer Guelfo) $451,020 (Grant total $1,450,502 contracted to EA Engineering, sub-project to Anderson and Guelfo)

SERDP. "Supplemental Support for Advancing the Understanding of the Ecological Risk of Per- and Poly-fluoroalkyl Substances" 2020-2022. (With Chris Salice, Jennifer Field, and Chris McCarthy) $110,522 (Grant total $485,000 contracted to Towson University, sub-project to Anderson)

U.S. Department of State. "Development of an Accredited Chemical Forensics Laboratory in Iraq" 2016-2017. (With Ron Chesser, Annette Sobel, David Klein, Louisa Hope-Weeks, Brent Lindquist, John Zak, and Brenda Rodgers) $592,943

SERDP. "Advancing the Understanding of the Ecological Risk of Per- and Poly-fluoroalkyl Substances" 2016-2020. (With Chris Salice, Jennifer Field, and Chris McCarthy) $242,386 (Grant total $1,225,907 contracted to Towson University, sub-project to Anderson)

Honeywell. "PBT Profile of Novel Perfluorinated Compounds." 2015-2016. $32,225**

Terracon Foundation. "Scholarships for Environmental Toxicology Graduate Students." 2014-2018. $37,200**

U.S. Air Force. "Focused Remedial Investigation of Potential Ecological Effects of Perfluorinated Compounds and Associated Human Exposures from Fish Consumption." 2012-2016 (With Chris Salice) $389,785

Grayson County Health Department. "Algal Toxin Monitoring: Lake Texoma." 2012-2019 (With Jonathan Maul) $69,500**

Permian Basin Petroleum Association. "Effects of Anthropogenic Factors on the Prey Base of the Dunes Sagebrush Lizard." 2013 (With Chris Salice) $16,000

Louisiana Oil Spill Coordinators Office/LSU. "Geometry and Fate of Oil Distribution in Impacted Marshes." 2012-2013. (With Andrew Jackson and Juske Horita) $50,000

Permian Basin Petroleum Association. "Effects of Anthropogenic Factors on the Dunes Sagebrush Lizard, *Sceloporus arenicolus*." 2012 (With Chris Salice) $20,000

Shell. "Terrestrial Toxicity Investigation of Gas-to-Liquids Fluids for Land-Based Drilling Applications-Phase 2." 2011-2013. (With Deborah Carr and Chris Salice) $69,990**

Permian Basin Petroleum Association. "Preliminary Risk Assessment for the Dunes Sagebrush Lizard, *Sceloporus arenicolus*, in West Texas." 2011 (With Chris Salice) $15,000**

Shell. "Terrestrial Toxicity Investigation of Gas-to-Liquids Fluids for Land-Based Drilling Applications." 2010-2011. (With George Cobb and Deborah Carr) $67,598**

City of Lubbock. "Canyon Lakes Water Reuse." 2010-2011. (With Ken Rainwater, Andrew Jackson, and Audra Morse) $57,700

Picatinny Arsenal. "Environmental Screening Test Protocol for Nanomaterials". 2010-2011. (With Andrew Jackson and George Cobb) $69,207

U.S. Army Corps of Engineers. "Chemical Contamination in Sturgeon Entrained by Dredges." 2010. (With Céline Godard-Codding, George Cobb, and Jaclyn Cañas) $31,853

Texas Water Resources Institute. "Biotransformation of Pharmaceuticals and Personal Care Products (PPCPs) at an Effluent Land Application Site." 2009-2010. (With Deborah Carr) $4,967**

Texas Water Resources Institute. "Occurrence of Pharmaceuticals and Personal Care Products (PPCPs) at an Effluent-Dominated Wastewater Application Site: Estrogens, Triclosan, and Caffeine." 2009-2010. (With Adcharee Karnjanapiboonwong) $4,967**

Texas Environmental Health Institute. "Assessment of Air Contamination in and around the Texarkana Wood Preserving Site in Bowie County, Texas". 2008-2010. (With George Cobb and Jaclyn Cañas) $250,000

Green Farms, LLC. "Bioremediation Byproduct Assessment". 2008. (With George Cobb) $15,150

Ensafe, Inc. "Effects of Perchlorate in Waters from NWIRP McGregor on a Native Amphibian Species". 2008. (With Phil Smith and Jonathan Maul) $71,997

DoE/Pantex. "Labratory Demonstration of *In Situ* Treatment Effectiveness for Reduction of Perchlorate, TCE, and Chromium at Pantex Plant." 2008-2009. (With Andrew Jackson and Ken Rainwater) $127,761

SERDP. "Research Needs Related on Natural Perchlorate: Production, Occurrence, and Stable Isotopic Signatures." 2008-2013. (With Andrew Jackson and Ken Rainwater) $563,340

U.S. EPA. "Center for Water Law and Policy." 2007-2011. (With Audra Morse) $200,306 (Grant total $432,300 contracted to Texas Tech, sub-project to Anderson)

NASA. "Control Software, Water Reclamation, Nanotechnology, Autonomous Inspection and Salad Crop Culture." 2007-2009 (With Andrew Jackson and Audra Morse) $150,000 (Grant total $920,000 contracted to Texas Tech)

NASA. "Control Systems, Water Recovery, Human Factors and Plant Growth Research." 2006-2008 (With Andrew Jackson, Audra Morse, and Darryl James) $217,000 (Grant total $992,000 contracted to Texas Tech)

SERDP. "Continuation of an Integrated Field and Laboratory Investigation with Wildlife: Ecological Risk Assessment of Military Energetic Residues Associated with Live Fire Ranges-Phase 9." 2006-2007. (With Andrew Jackson) $110,186 (Grant total $850,000 contracted to Texas Tech, sub-project to Anderson)

SERDP. "Continuation of an Integrated Field and Laboratory Investigation with Wildlife: Ecological Risk Assessment of Military Energetic Residues Associated with Live Fire Ranges-Phase 8." 2005-2006. (With Andrew Jackson) $90,384 (Grant total $850,000 contracted to Texas Tech, sub-project to Anderson)

Science Applications International. "Revisions to EPA Method 9058." 2004-2005. (With Rashila Patel, Kang Tian, Jaclyn Cañas) $25,582**

SERDP. "Identification and Characterization of Natural Sources of Perchlorate." 2005-2008. (With Andrew Jackson, Ken Rainwater, Moira Ridley, and Sandy Dasgupta) $570,000

SERDP. "Continuation of an Integrated Field and Laboratory Investigation with Wildlife: Ecological Risk Assessment of Military Energetic Residues Associated with Live Fire Ranges-Phase 7." 2003-2005. $65,154 (Grant total $850,000 contracted to Texas Tech, sub-project to Anderson)

U.S. DoD. "Trophic transport of RDX and metabolites to plant and soil invertebrates with subsequent transport to rodents." 2003-2004. (With George Cobb and Scott McMurry) $91,000 (Grant total $250,000 contracted to Waterways Experiment Station, subcontract to Texas Tech).

SERDP. "Continuation of the Ecological Risk Assessment of Perchlorate and Explosives in Avian Species, Rodents, Amphibians, and Fish: An Integrated Laboratory and Field Investigation-Phase 6." 2003-2004. $261,906 (Grant total $2,000,000 contracted to Texas Tech, sub-project to Anderson)

NASA. "Evaluation of NASA's Advanced Life Support Integrated Water Recovery System for Non-Optimal Conditions and Terrestrial Applications" 2003-2005. (With Andrew Jackson, Audra Morse, Ken Rainwater, and Ted Wiesner) $620,000

Texas Commission on Environmental Quality. "Perchlorate assessment in the high plains-Phase II." 2003-2004. (With Andrew Jackson, Ken Rainwater, Tom Lehman, and Moira Ridley) $532,000

NASA. "Evaluation of NASA's Advanced Life Support Integrated Water Recovery System for Non-Optimal Conditions and Terrestrial Applications" 2002-2003. (With Andrew Jackson, Ken Rainwater, Dean Muirhead, and Audra Morse) $429,000

Texas Commission on Environmental Quality. "Perchlorate assessment in the high plains-Phase I." 2002-2003. (With Andrew Jackson, Ken Rainwater, Tom Lehman, Richard Tock, Lloyd Urban, Tony Mollhagen, and Moira Ridley) $410,000

SERDP. "Continuation of the Ecological Risk Assessment of Perchlorate in Avian Species, Rodents, Amphibians, and Fish: An Integrated Laboratory and Field Investigation-Phase 5." 2002-2003. $55,664 (Grant total $834,396 contracted to Texas Tech, sub-project to Anderson)

U.S. Department of Agriculture. "Risks from food crops grown with perchlorate-contaminated irrigation water." 2001-2004. (With Phil Smith and Andrew Jackson) $180,000

Conservation and Research Foundation. "Pesticide Residues in Elementary School Yards Along the Texas-Mexico Border." 2001-2002. $4,000**

Royal Geographic Society. "Crocodile Field Research in Belize." 2001. (With Scott McMurry) $3,500

SERDP. "Risk based approaches for improved toxic chemical management for environmental and human health issues in the department of defense-Phase 4." 2001-2002. $107,142 (Grant total $1,740,000 contracted to Texas Tech, sub-project to Anderson)

Brazos River Authority/U.S. Army Corps of Engineers. "Ecological risk assessment of ammonium perchlorate on fish, amphibian, and mammals in the Lake Belton and Lake Waco watersheds: An integrated laboratory and field investigation." 2001-2003. (With Phil Smith, Scott McMurry, Jim Carr, Chris Theodorakis, George Cobb, Andrew Jackson, Ken Dixon) $1,860,000**

SERDP. "Risk based approaches for improved toxic chemical management for environmental and human health issues in the department of defense-Phase 3." 2000-2001. $262,706 (Grant total $1,367,000 contracted to Texas Tech, sub-project to Anderson)

Ecorisk, Inc. "Assessing the effects of multi-species buffers on water quality and riparian and aquatic wildlife." 2000-2001. (With Chuck Crabtree and Ron Kendall) $69,226

ARP/ATP Texas Higher Education Coordinating Board. "Supplemental funding for high school science teachers." 2000. (With Yu-Jie Guo) $8,100**

ARP ATP Texas Higher Education Coordinating Board. "Environmental chemistry of aged contaminants in soil." 2000-2002. $69,600**

Trees Forever, Inc. "Assessing the effects of multi-species buffers on water quality and riparian and aquatic wildlife." 1999-2000. (With Chuck Crabtree and Ron Kendall) $25,000

SERDP. "Risk based approaches for improved toxic chemical management for environmental and human health issues in the department of defense-Phase 1&2." 1999. $297,602 (Grant total $1,600,000 contracted to Texas Tech, sub-project to Anderson)

American Chemical Society, Agrochemicals Division. "Toxicology, environmental chemistry, and health (TECH)-on-the-web: A documentation center for the Texas high plains region. " 1998-1999. (With Mike Hooper, Hiroshi Awata, Kevin Rummel, and Edward Scollon) $5,000**

U. S. Air Force Office of Scientific Research. "The use of vegetation to enhance degradation of ethylene glycol and propylene glycol: Prevention of runoff and movement to surface waters." 1998. (Subcontract from Iowa State University) $6,813**

NIEHS. Superfund, Noncompetitive Renewal. "Wildlife biomarkers applications to remediation decision making." 1998. (With Mike Hooper, George Cobb, Scott McMurry, and Ron Kendall) $180,395

U.S. EPA. "Exposure and response of Morelet's crocodile (*Crocodylus moreletii*) populations to endocrine disrupting compounds in Belize, Central America." 1997-2002. (With Scott McMurry) $159,788

Lockheed Martin Energy Systems. "Raccoons as sentinels for polychlorinated biphenyl and heavy metal exposure." 1998. (With Scott McMurry and Phil Smith) $99,990

Clemson University

NIEHS. Superfund, Noncompetitive Renewal. "Wildlife biomarkers applications to remediation decision making." 1997. (With Mike Hooper, George Cobb, Richard Dickerson, and Ron Kendall) $193,972

EPA/American Association for the Advancement of Science. "Development of a phytoremediation handbook." 1997. $9,500**

Ecorisk, Inc. "Avian response to chlorpyrifos exposure in corn agroecosystems." 1997. (With Scott McMurry, Mike Hooper, and Ron Kendall) $50,000**

Clemson University Innovation Fund. "Integration of analytical chemistry computer software packages into graduate-level courses in environmental toxicology." 1997. $685**

Iowa State University

Great Plains/Rocky Mountain Hazardous Substance Research Center. "The use of vegetation to enhance bioremediation of surface soils contaminated with pesticide wastes." 1995-1997. (With Joel Coats) $119,032**

U. S. Air Force Office of Scientific Research. "The use of vegetation to enhance degradation of ethylene glycol and propylene glycol: Prevention of runoff and movement to surface waters." 1995-1998. (With Joel Coats) $101,617**

U. S. Environmental Protection Agency. "Development of strategies for biological remediation of pesticide-contaminated sites." 1994-1996. (With Joel Coats, Tom Moorman, Blythe Hoyle, and Krish Jayachandran) $497,961

Center for Health Effects of Environmental Contamination, University of Iowa. "The use of vegetation to enhance bioremediation of soils in Iowa contaminated with pesticide wastes." 1994. (With Joel Coats) $14,931**

CIBA Agricultural Division. "The use of vegetation to enhance bioremediation of surface soils contaminated with atrazine and metolachlor." 1993-1996. (With Joel Coats) $45,000**

U. S. Department of Agriculture, North Central Region Pesticide Impact Assessment Program. "The influence of soil and environmental variables on the degradation and volatility of methyl bromide in soil." 1993-1995. (With Joel Coats and Jim Cink) $43,828

Center for Health Effects of Environmental Contamination, University of Iowa. "The potential use of vegetation for bioremediation of surface soils contaminated with pesticide wastes: Implications for sites in Iowa." 1992-1993. (With Joel Coats) $13,256**

CONSULTING

I have done consulting work (previously or currently) for the following:

Advanced Biotechnology, Inc.
American Association for the Advancement of Science (AAAS)
American Stewards of Liberty
Aptim Government Solutions, LLC
Arcadis
Arkansas Attorney General's Office
Brad J. Davidson Law Firm PC
Cardno ENTRIX
CropLife America
Dionex, Inc.
EA Engineering Science and Technology
ECORISK, Inc.
Environ International
Grayson County Health Department
Honeywell
Jackson Walker, LLP
Johnson Controls, Inc.
Mills Shirley, LLP
National Institutes of Health (NIH)
Parsons Engineering
Permian Basin Petroleum Association
RPS Group
Rumberger Kirk and Caldwell
ThermoFisher
United States Department of Justice (U.S. DoJ)
United States Environmental Protection Agency (U.S. EPA)
Winstead PC

TEACHING

HISTORY *(reverse chronological order)*

Does not include Thesis (6000), Research (7000), or Dissertation (8000) hours.

Year	Semester	Course	Title	Credits	Students	Responsibility[A]
2024	Spring	ENTX 6445	Chemical Sources and Fates in Environmental Systems	4	10	65%
2023	Spring	ENTX 6445	Chemical Sources and Fates in Environmental Systems	4	6	65%
	Fall	ENTX 6351	Analytical Toxicology	3	12	24%
	Fall	ENTX 6352	Analytical Toxicology Lab	3	13	100%
	Fall	SVM6301	One Health Concepts and Practice	3	8	1%
2022	Spring	ENTX 6445	Chemical Sources and Fates in Environmental Systems	4	10	62%
	Fall	ENTX 6351	Analytical Toxicology	3	20	24%
	Fall	ENTX 6352	Analytical Toxicology Lab	3	18	100%
	Fall	SVM6301	One Health Concepts and Practice	3	15	1%
2021	Spring	ENTX 6445	Chemical Sources and Fates in Environmental Systems	4	12	59%
	Fall	ENTX 6351	Analytical Toxicology	3	10	56%
	Fall	ENTX 6352	Analytical Toxicology Lab	2	14	100%
2020	Spring	ENTX 6445	Chemical Sources and Fates in Environmental Systems	4	16	57%
	Fall	ENTX 6351	Analytical Toxicology	3	8	24%
2019	Spring	ENTX 6445	Chemical Sources and Fates in Environmental Systems	4	14	57%
	Fall	ENTX 6351	Analytical Toxicology	3	6	32%
	Fall	ENTX 6352	Analytical Toxicology Lab	2	11	25%
	Fall	CE 5383	Bioremediation of Wastes in Soil Systems	3	8	3%
2018	Spring	ENTX 6445	Chemical Sources and Fates in Environmental Systems	4	10	57%
	Spring	ENTX 6115	Analytical Instrument Problem Solving and Troubleshooting	1	10	50%
2017	Spring	ENTX 6445	Chemical Sources and Fates in Environmental Systems	4	15	57%
	Spring	ENTX 6115	LC-MS Users: Resolving Instrument Performance Issues	1	6	100%
	Fall	ENTX 6351	Analytical Toxicology	3	15	24%
	Fall	ENTX 6352	Analytical Toxicology Lab	3	14	3%
2016	Spring	ENTX 6445	Chemical Sources and Fates in Environmental Systems	4	15	57%
	Spring	PSS 4301	Agricultural Compounds	3	17	3%
	Fall	ENTX 6351	Analytical Toxicology	3	9	24%
	Fall	ENTX 6352	Analytical Toxicology Lab	3	7	3%
2015	Spring	ENTX 6445	Chemical Sources and Fates in Environmental Systems	4	14	29%
	Spring	ENTX 6115	Topics in Environmental/Analytical Chemistry	1	13	100%
	Fall	ENTX 6351	Analytical Toxicology	3	9	10%
	Fall	ENTX 6352	Analytical Toxicology Lab	3	9	3%

	Fall	GSPH 5224	Public Health in Practice	2	31	3%
	Fall	GSPH 5229	Issues in Rural Health	2	31	3%
2014	Spring	ENTX 6445	Chemical Sources and Fates in Environmental Systems	4	17	29%
	Fall	ENTX 6351	Analytical Toxicology	3	14	10%
2013	Spring	ENTX 6445	Chemical Sources and Fates in Environmental Systems	4	17	33%
	Spring	PSS 5307	Pesticides	3	22	3%
	Fall	ENTX 6325	Principles of Toxicology I	3	22	3%
	Fall	ENTX 6351	Analytical Toxicology	3	6	10%
	Fall	ANTH 2308	Introductory Forensic Science	3	59	3%
2012	Spring	ENTX 6445	Chemical Sources and Fates in Environmental Systems	4	8	50%
	Spring	ENTX 6326	Principles of Toxicology II	3	10	3%
	Spring	ENTX 6115	Environmental Toxicology Seminar	1	25	3%
	Fall	ENTX 6351	Analytical Toxicology	3	11	20%
	Fall	ENTX 6251	Analytical Toxicology Lab	2	9	20%
	Fall	ANTH 2308	Introductory Forensic Science	3	65	3%
2011	Spring	ENTX 6100	Topics in Environmental Chemistry	1	8	100%
	Spring	ENTX 6445	Chemical Sources and Fates in Environmental Systems	4	18	33%
	Spring	ENTX 6326	Principles of Toxicology II	3	15	3%
	Fall	ENTX 6351	Analytical Toxicology	3	7	50%
	Fall	ENTX 6251	Analytical Toxicology Lab	2	8	50%
2010	Spring	ENTX 6445	Chemical Sources and Fates in Environmental Systems	4	23	33%
	Fall	ENTX 6351	Analytical Toxicology	3	23	33%
	Fall	ENTX 6251	Analytical Toxicology Lab	2	19	33%
2009	Spring	ENTX 6445	Chemical Sources and Fates in Environmental Systems	4	9	33%
	Fall	ENTX 6351	Analytical Toxicology	3	12	33%
	Fall	ENTX 6251	Analytical Toxicology Lab	2	12	33%
	Fall	ENTX 6100	Pesticides in the Environment	1	13	100%
2008	Spring	ENTX 6445	Chemical Sources and Fates in Environmental Systems	4	14	33%
	Fall	ENTX 6351	Analytical Toxicology	3	4	33%
	Fall	ENTX 6251	Analytical Toxicology Lab	2	5	33%
2007	Spring	ENTX 6445	Chemical Sources and Fates in Environmental Systems	4	12	33%
	Fall	ENTX 6351	Analytical Toxicology	3	6	33%
	Fall	ENTX 6251	Analytical Toxicology Lab	2	5	33%
2006	Spring	ENTX 6445	Chemical Sources and Fates in Environmental Systems	4	12	50%
	Spring	ENTX 6100	Pesticides in the Environment	1	15	100%

	Fall	ENTX 6351	Analytical Toxicology	3	6	33%
	Fall	ENTX 6251	Analytical Toxicology Lab	2	6	33%
	Fall	CE 5393	Unit Processes	3	7	3%
2005	Spring	ENTX 6445	Chemical Sources and Fates in Environmental Systems	3	10	50%
	Spring	CE 5383	Bioremediation of Wastes in Soil Systems	3	10	3%
	Fall	ENTX 6351	Analytical Toxicology	3	10	50%
	Fall	ENTX 6251	Analytical Toxicology Lab	2	10	33%
	Fall	TOX 6105	Introductory Seminar in Environmental Toxicology	1	6	100%
2004	Spring	ENTX 6345	Chemical Sources and Fates in Environmental Systems	3	16	50%
	Fall	ENTX 6351	Analytical Toxicology	3	14	50%
	Fall	ENTX 6251	Analytical Toxicology Lab	2	15	33%
	Fall	TOX 6105	Introductory Seminar in Environmental Toxicology	1	13	100%
	Fall	CE 5390	Water and Wastewater Analysis	3	8	3%
2003	Spring	ENTX 6345	Chemical Sources and Fates in Environmental Systems	3	21	50%
	Fall	ENTX 6351	Analytical Toxicology	3	13	50%
	Fall	ENTX 6251	Analytical Toxicology Lab	2	8	33%
	Fall	TOX 6105	Introductory Seminar in Environmental Toxicology	1	16	100%
	Fall	ENTX 6361	Environmental and Wildlife Toxicology	3	2	3%
2002	Spring	ENTX 6345	Chemical Sources and Fates in Environmental Systems	3	15	50%
	Fall	ENTX 6351	Analytical Toxicology	3	8	50%
	Fall	ENTX 6251	Analytical Toxicology Lab	2	8	50%
	Fall	TOX 6105	Introductory Seminar in Environmental Toxicology	1	20	100%
	Fall	ENTX 6361	Environmental and Wildlife Toxicology	3	5	3%
2001	Spring	ENTX 6351	Analytical Toxicology	3	5	50%
	Spring	ENTX 6251	Analytical Toxicology Lab	2	10	50%
	Spring	TOX 6115	Interdisciplinary Seminar in Environmental Toxicology	1	13	100%
	Spring	HONS 3302	Honors Seminar in Science	3	5	100%
	Fall	ENTX 6351	Analytical Toxicology	3	14	50%
	Fall	ENTX 6251	Analytical Toxicology Lab	2	9	50%
2000	Spring	ENTX 6345	Chemical Sources and Fates in Environmental Systems	3	5	50%
	Fall	ENTX 6345	Chemical Sources and Fates in Environmental Systems	3	8	50%
	Fall	TOX 6115	Interdisciplinary Seminar in Environmental Toxicology	1	22	100%
1999	Spring	BIOL 6301-102	Analytical Toxicology Lab	3	1	100%
	Spring	BIOL 6301-12	Chemical Sources and Fates in Environmental Systems	3	6	50%
	Spring	PSS 6331	Environmental Soil Science	3	7	3%

	Spring	HONS 2116	Integrated Science Lab	1		3%
	Spring	BIOL 6301	Principles of Toxicology II	3	9	3%
	Fall	BIOL 6301	Analytical Toxicology	3	4	50%
	Fall	BIOL 6301	Analytical Toxicology Lab	1	3	50%
1998	Spring	BIOL 4301	Introduction to Toxicology	3		3%
	Spring	BIOL 6301	Pesticides in the Environment	3	2	100%
	Fall	BIOL 6301-38	Principles of Toxicology I	3	10	3%
	Fall	BIOL 6301-34	Pesticides in the Environment	3	3	100%
1997	Fall	BIOL 3309/5309	Populations Communities and Ecosystems	3		3%
1996[B]	Spring	EnTox 863	Analytical Toxicology	3		50%
	Spring	EnTox 822/822L	Analytical Toxicology Lab	2		50%
	Fall	EnTox 421/621	Chemical Sources and Fates in Environmental Systems	3		33%
	Fall	EnTox 400/600	Wildlife Toxicology	3		3%
1995[C]	Spring	Tox 550	Pesticides in the Environment	2		50%
1994[C]	Spring	Tox 550	Pesticides in the Environment	2		50%
	Spring	Tox 675	Insecticide Toxicology	3		3%
	Fall	Tox 501	Toxicology Methods	3		3%
1993[C]	Spring	Tox 550	Pesticides in the Environment	2		50%
	Fall	Tox 501	Toxicology Methods	3		3%
1992[C]	Spring	Tox 550	Pesticides in the Environment	2		50%

[A]3-6% indicates 1-2 Guest Lectures.
[B]Clemson University
[C]Iowa State University

STUDENT EVALUATION OF TEACHING

Last 5 academic years. Average score on 1-5 scale. Instructor of record courses only.

Course	Semester	**Question:** Overall this instructor was an effective teacher.	**Question:** Overall this course was a valuable learning experience.
ENTX 6445	Spring 2023	5.0	5.0
ENTX 6445	Spring 2022	4.70	4.70
ENTX 6445	Spring 2021	4.80	4.80
ENTX 6445	Spring 2020	4.40	4.40
ENTX 6445	Spring 2019	4.20	4.50

STUDENT/POSTDOC PLACEMENT

Present employment status (if known) of former graduate students and postdocs under my supervision (or co-supervision).

Student	*Degree*	*Position*
Dr. Frank Green	Postdoc (2023)	Texas Tech University

Dr. Farzana Hossain	Ph.D. 2023	Food and Drug Administration (FDA)
Dr. Kaylin McDermett	Ph.D. 2022	Geosyntec Consultants
Anna Longwell	M.S. 2022	U.S. Army Corps of Engineers
Dr. Seenivasan Subbiah	Postdoc (2015-2022)	Syngenta
Dr. Nicole Dennis	Ph.D. 2021	Research Faculty, University of Florida
Dr. Chandi Revanna	Ph.D. 2021	Texas Tech University
Dr. Steve Lasee	Ph.D. 2020	Private Consultant
Caitlin Cranston	M.S. (Forensics) 2020	New Mexico Department of Health
Nataly Gomez	M.S. (Forensics) 2019	
Ryan Cleary	M.S. 2018	Pace Analytical
Will Thompson	M.S. 2018	Golder Associates
Jessica (Mauricio) Price	M.S. 2017	Childrens Environmental Health Network
Dr. Adric Olson	Ph.D. 2017	BASF
Dr. John Kasumba	Postdoc 2015-2017	Regeneron Pharmaceuticals
Dr. Evelyn Reátegui-Zirena	Ph.D. 2016	GSI Environmental, Inc.
Jacob Carrick	M.S. 2016	Michigan Department of Health and Human Services
Dr. Thomas Bilbo	M.S. 2015	Clemson University
Kristina Kohl	M.S. 2015	Texas Tech University Health Sciences Center
Rebecca Cochran	M.S. 2015	
Heather Lanza	M.S. 2015	CDM Smith
Dr. Joe Mudge	Postdoc 2013-2014	The Co-operators
Dr. Brie (Debusk) Sherwin	M.S. 2001; Ph.D. 2014	President's Excellence in Research Professor, Texas Tech University School of Law
Ife Bamgbose	M.S. 2013	Gradient Corporation
Dr. Richard Erickson	Ph.D. 2013	U.S. Geological Survey (USGS)
Dr. Babina Shrestha	Postdoc 2013	Independent Environmental Consultant
Lisa (Arneson) Westbrook	M.S. 2012	Texas Commission on Environmental Quality (TCEQ)
Darcy Chase	M.S. 2011	Monsanto
Dr. Rasesh Shah	Ph.D. 2011	Engrail Therapeutics
Dr. Raghavendhran Avanasi	M.S. 2010	Syngenta
Dr. Fa Karnjanapiboonwong	Ph.D. 2010	Texas Tech University
Dr. Juliet Kinyua	M.S. (Forensics) 2010	Public Health Institute
Cameron Gulley	M.S. 2009	STEP Energy Services
Dr. Deborah Carr	Ph.D. 2009	Research Professor, Texas Tech University
Dr. Baohong Zhang	Ph.D. 2006	THCAS Distinguished Professor, East Carolina University
Dr. Qiuqiong Cheng	Ph.D. 2006	Fresenius Medical Care North America
Dr. Namgoo Kang	Postdoc 2005-2006	Korea University of Science and Technology
Dr. Jaclyn Cañas-Carrell	Ph.D. 2005	President's Excellence in Research Professor, Texas Tech University
Dr. Lu Yu	M.S. 2002; Ph.D. 2004	Phillips 66
Dr. Gopal Coimbatore	Postdoc 2002-2003	Unknown
Dr. Carrie Bradford	M.S. 2002	Texas Department of State Health Services
Mindy (Landrum) Olivares	M.S. 2002	RiskNomics, LLC
Dr. Kang Tian	Postdoc 2001-2004	Unknown
Chris Pepper	M.S. 2001	RigbySlack
Dr. Yu-Jie Guo	Postdoc 2000-2001	Unknown
Dr. Ted Wu	M.S. 2000	Alaska Department of Environmental Conservation
Dr. Hiroshi Awata	M.S. 1999	Jacobs CH2M
Debbie Bethea[A]	M.S. 1997	Montrose Environmental Group
Dr. Ellen Arthur[B]	Ph.D. 1996	Bayer (Retired)
Dr. Patricia Rice[B]	Ph.D. 1996	BASF
Dr. Pamela Rice[B]	Ph.D. 1996	United States Department of Agriculture (USDA)

[A]Clemson University
[B]Iowa State University

PROFESSIONAL REFERENCES

Dr. Barbara Walton*
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Dr. Joel Coats**
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*Major Professor
**Postdoctoral Advisor

PERSONAL DATA

Born: November 4, 1963; Alma, Nebraska