

## David Edward Unger

Division of Natural Sciences  
Biology Department  
Maryville College  
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### Education:

Ph.D. University of Kentucky 12/07  
College of Agriculture, Department of Forestry  
Dissertation Project: "Population dynamics, resource selection, and landscape conservation of a recolonizing black bear (*Ursus americanus*) population."

M.S. University of Wisconsin--Stevens Point 5/99  
College of Natural Resources  
Thesis Project: "Spatial and habitat factors of timber wolf (*Canis lupus nubilus*) den and rendezvous sites in Northern Wisconsin and East-central Minnesota"

B.S. Magna Cum Laude, Eastern University, St. Davids, PA 5/92  
Major: Biology, Minor: Chemistry

### Related Experience:

#### Teaching/Academic:

August 2016 – Present: Associate Professor of Biology: Maryville College, Maryville, TN. Tenured and Promoted May 2016. Courses taught are noted below.

June 2017 – Present: Adjunct Graduate Professor: South College Physician's Assistant Graduate Program, Knoxville, TN. Courses Taught: Human Physiology

Spring 2021 – Present: Coordinator: Environmental Science Major, Maryville College

2014 – Present: Faculty Advisor for the Tri-Beta Biology National Honor Society

August 2012 – 2019: Adjunct Graduate Professor: Grand Valley State University Graduate Program, Grand Valley, MI. Served on a Masters graduate committee within the Biology Department.

August 2012 – May 2016: Assistant Professor of Biology: Maryville College, Maryville, TN  
Courses Taught: Natural History of the Great Smoky Mountains, Zoology, Biology for non-majors, Ecology, Ornithology, Conservation Biology, Vertebrate Field Biology, Study Abroad (Bonaire and New Zealand), GIS.

August 2007 – May 2011: Assistant Professor of Biology: Alderson Broaddus College, Philippi, WV. Awarded Tenure Fall 2009. Courses taught: General Biology, GIS, Mammalogy, Ecology, Environmental Science, Conservation Biology, Ornithology, Physiology, and College First Year Experience (additional courses listed below).

August 1998 – May 2003: Instructor/Assistant Professor of Biology: Alderson Broaddus College, Philippi, WV. Courses taught (in addition to those listed above): Wildlife Ecology and Techniques, Genetics, Cell Biology, Immunology, Microbiology, Microbial Ecology.

January-May 1997: Adjunct Science Professor: Lakeland College, Chippewa valley center, Chippewa Falls, WI.

Fall 1996/Spring 1997: Substitute Teacher: Spooner School District, Spooner, Wisconsin.

March 1996: Community Instructor: “Explore, Discover, Experience” West Bend, WI.

**Recent (since 2010) Senior Studies, Personal Research, Volunteer, and Graduate work):**

Summer 2021: Co-Principal Investigator: Spawning behavior and population dynamics of the Atlantic horseshoe crab (*Limulus polyphemus*) on Cumberland Island National Seashore, St. Marys, Georgia. Senior Study Student: Samantha Stacy (2021 – Ongoing).

2021 – Present: Principal Investigator: Ecology, Impact, and Management of a beaver created wetland in Great Smoky Management Park. Work to begin September 2021.

2020 – Present: Principal Investigator: Possible reintroduction of the eastern hellbender (*Cryptobranchus alleganiensis*) into Hesse Creek, Blount County, TN. Work in conjunction with the National Park service, Tennessee Wildlife Resources Agency, Southeastern Hellbender Conservation Initiative, and Private landowners. Two senior study students: Maggie Wilson (2021) and Cooper Read (2021). Completed.

2017 - Present: Principal Investigator: Success of American Chestnut (*Castanea dentata*) hybrid saplings in a Walland, TN backcross seed orchard. Senior Study Student: Kathryn Maley (2019) (completed).

2015 - Present: Principal Investigator: Population dynamics, genetics, and homerange of an isolated box turtle (*Terrapene carolina*) population in a small woodlot in eastern Tennessee (ongoing). Senior Study Student: Valerie Whitehead (2018) (completed) and Sarah Gordon (2018) (completed).

- 2015 - Present: Co-Principal Investigator: Burrow use, population dynamics, parasite load, habitat selection, and reaction to control burning practices of gopher tortoise (*Gopherus polyphemus*) on Cumberland Island National Seashore, Georgia (ongoing). Conducted in conjunction with the National Park Service at Cumberland Island National Seashore. Senior Study Students: Thomas Moore (2016) (completed) and Reeve Moore (2017) (completed), Rebecca Roberson (2021 – ongoing).
- 2015 - Present: Principal Investigator: Amphibian diversity, abundance, and distribution within the Cane Creek Watershed of Great Smoky Mountains National park and adjacent private property (ongoing). Conducted in conjunction with the National Park Service at Great Smoky Mountains National Park. Senior Study Students: Addison Grimm (2015), Chris Sammons (2017), Miranda Pendergrass (2018) (completed), Gavin Dougherty (ongoing).
- 2013 - Present: Co-Principal Investigator: Basking behavior of Bonaire Whiptail Lizards on Bonaire, Municipality of the Netherlands (ongoing). Senior Study Students: Lauren Bonee (2014), Julia Vineyard (2016) (completed).
- 2013 - Present: Principal Investigator: Reef fish populations and coral reef health on the island of Bonaire, Municipality of the Netherlands (ongoing). Senior Study Students: Hana Henry (2014), Casey Gentile (2016) (completed).
- 2016 - Present: Principal Investigator: Biofluorescence and indicator species as a measure of coral reef health on the island of Bonaire, Municipality of the Netherlands (ongoing). Senior Study Student: Tommy Wright (2016) (completed), Laurel Woodward (2019) (Ongoing).
- Academic Year 2015/2016: Senior Study Research (Alyssa Hughes): “A long term (10 day) study of the physiological effects of repetitive scuba diving” (2016) (completed).
- Academic Year 2014/2015: Senior study research (Amy Shea Bryant): “Search and rescue Incident analysis and GIS assessment from years 2010 – 2014 in the Great Smoky Mountains National Park”. Conducted in conjunction with the National Park Service at Great Smoky Mountains National Park. (2014) (completed)
- Academic year 2014/2015: Senior Study Research (Allison Peeler): “Parasite load and cross contamination risk in equines at a rural equestrian facility in east-Tennessee” (2015) (completed).

- Summers 2013, 2014: Principal Investigator: Small mammal density, diversity, and distribution within American marten (*Martes americana*) habitat in the Lower Peninsula of Michigan (completed). Senior Study Students: David Lee Haskins (2013), Mary Feely (2014) (completed)
- Academic year 2013/2014: Principal Investigator: Occupancy rate of established bat boxes given thermal variation due to orientation and color (ongoing).
- Academic year 2013/2014: Principal Investigator: Presence of a flying squirrel (*Glaucomys volans*) population within the college woods of Maryville College, Maryville TN (ongoing).
- Academic year 2013/2014: Senior study research (Natalia Mock): Thesis title: “Impact of a small woodlot on biotic and chemical stream quality” (2013) (completed).
- Academic Year 2012/2013: Senior Study Research (Thomas Mitchell): Thesis title: “It’s a bioblitz: A comparative study of an accepted and newly adopted sampling technique in field biology”. Conducted in conjunction with the National Park Service at Great Smoky Mountains National Park. (2013) (completed).
- Academic Year 2012/2013: Senior Study Research (Matthew Morgan): Thesis title: “Activity and time budget of squirrels (*Sciurus carolinensis*)” (completed).
- Academic Year 2011/2012: Senior Study Research (Amanda Peoples): “Recycling Renovations” (2012) (completed).
- Academic Year 2011/2012: Senior Study Research (Erin Armstrong): “Interaction of Gustatory and Olfactory senses” (completed).
- Academic Year 2011/2012: Senior Study Research (Jennifer Chancey): “Allegheny Woodrat (*Neotoma magister*) population check in West Virginia”. Conducted in conjunction with the West Virginia Department of Natural Resources (completed).
- Academic year 2011/2012: Senior Study Research (Eli Joseph): “Tree Survey of the Campus of Alderson Broaddus College” (completed).
- Academic year 2011/2012: Senior Study Research (Mary Lough): “Weight Gain and Physiological Changes of First Time Freshmen at Alderson-Broaddus College” (completed).
- Academic year 2011/2012: Senior Study Research (Kaitlyn Marple): “Factors Effecting Commonly Diagnosed Canine and Feline Diseases” (completed).

- Academic year 2011/2012: Senior Study Research (Gwen Brand): “Wildflowers Survey of Alderson-Broadus College Campus” (completed).
- Academic year 2010/2011: Senior Study Research (Derek Patsy): “BioBlitz for Salamanders Species on Alderson Broadus Hill” (completed).
- Summer 2011: Collaborator: Population dynamics and resource selection of a reintroduced American marten (*Martes americana*) population in the Lower Peninsula of Michigan (completed). Research conducted in collaboration with Grand Valley State University and The Little River Band of Ottawa Indian Tribe.
- Winter 2011: Volunteer: Colorado Division of Wildlife. Assisted in the tracking, capture, and processing of puma (*Puma concolor*).
- Summer 2010: Volunteer: Colorado Division of Wildlife. Radio-tracked Puma both ground and aerial, located natal den sites, and assisted in processing kittens.
- March 2010: Volunteer: Yellowstone National Park Wolf Project. Winter Field Study. Evaluated winter wolf (*Canis lupus nubilus*) kills, data collection on hunting behavior, pack leadership, etc.
- Summer 2009: Volunteer: Yellowstone National Park Wolf Project. Wolf Predation Study. Evaluated winter wolf (*Canis lupus nubilus*) kills, data collection on hunting behavior, pack leadership, etc.
- Summer 2008: Research Technician: Colorado Division of Wildlife. Radio-tracked lynx (*Felis lynx*) for the annual reproduction survey project.
- July 2003 – December 2007: Doctoral Candidate: University of Kentucky, Lexington.
- Spring 2006: Co-Principal Investigator: Evaluating geo-referenced infrared technologies for surveying large mammals: Applications for elk (*Cervus elaphus*) and black bear in southeastern KY.
- Summers 2003 – 2006: Crew Leader, Black Bear Research and Trapping: Coordinated all field and technical aspects of non-nuisance trapping and ecological research of black bear in southeastern Kentucky for the University of Kentucky Black Bear Project.
- Summer 2003: Research Technician: Colorado Division of Wildlife. Radio-tracked lynx, located natal den sites, and assisted in processing kittens.
- Summer 2002: Research technician: University of Tennessee, Arkansas Fish and Game, USFWS. Trapped and processed black bears on the White River National Wildlife Refuge.

- Summers 1999, 2000: Research technician: Wisconsin Department of Natural Resources (WDNR). Assisted in research conducted on wolves in northern Wisconsin. Duties included trapping wolves, collecting radio telemetry data, howling surveys, and wolf homesite investigation.
- September 1997: Research technician: Stevens Point Fisheries Coop, US Fish and Wildlife Service. Assisted in sampling of small (*Micropterus dolomieu*) and large mouth (*Micropterus salmoides*) bass populations of three northern Wisconsin lakes.
- Summer 1996: Research Technician: Buena Vista Prairie Chicken Research Station Stevens Point, WI. Assisted in field research of the Greater Prairie Chicken (*Tympanuchus cupido pinnatus*). Duties included trapping birds, radio telemetry, and vegetation analysis.
- Jan. 1995 – December 1998: Masters Student, University of Wisconsin, Stevens Point.
- June 1994-December 1995: Research Technician: WDNR. Conducted research on the US Highway 53 wolf study. Duties included trapping wolves, collecting radio telemetry data, determining annual territories, and conducting howling surveys.
- Summer 1994: Volunteer Wolf Trapper: WDNR.
- 1992-1994: Research Biochemist Affinity Biotech, Philadelphia, PA
- Summer 1991: Research Technician Savannah River National Ecology Laboratories Aiken, SC. Research was an analysis of Cesium 137 vs age of yellow bullhead catfish (*Ictalurus natalis*). Also performed population census of American alligator (*Alligator mississippiensis*).

### **Successful Grants and Scholarships:**

- 2022: Faculty Development Award (Maryville College): \$2500 to perform an exploratory study abroad trip to the Galapagos Islands, Ecuador in May 2023
- 2022: Global Plus Fellow (Maryville College): Awarded \$5000 to perform an exploratory study abroad trip to the Galapagos Islands, Ecuador in May 2023
- 2022: Co-Author: Senior Study Grant (Chestnut Orchard Work) granted to senior study student Erin Victorson (\$237)
- 2021: Author: Naylor Grant, Maryville College: Competitive Grant funding from Faculty Development Committee (FDC) for student/professor research over the summer (\$7600).
- 2021: Coauthor: National Park Service Fire Management Grant (\$15,000). Addendum to PMIS247810. Evaluation of control burn effects on Gopher Tortoise (*Gopherus Polyphemus*) on Cumberland Island National Seashore.

- 2021: Coauthor: National Park Service Grant (\$49,200). PMIS 247810. Evaluation of Gopher Tortoise (*Gopherus Polyphemus*) Population Dynamics on Cumberland Island National Seashore. Submitted 2018, Awarded 2020 for summer 2021 work.
- 2019: Coauthor: Appalachian College Association (ACA) Ledford Scholarship (\$4000). CoAuthor: Laurel Woodward
- 2017: Coauthor: Appalachian College Association (ACA) Ledford Scholarship (\$6100). Coauthor: Valerie Whitehead.
- 2016: Author: Naylor Grant, Maryville College: Competitive Grant funding student/professor research over the summer (\$3650).
- 2016: Coauthor: Appalachian College Association (ACA) Ledford Scholarship (\$6100). Coauthor: Thomas Moore
- 2015: Coauthor: Appalachian College Association (ACA) Ledford Scholarship (\$4400). Coauthor: Thomas Moore
- 2015: Coauthor: Appalachian College Association (ACA) Ledford Scholarship (\$6100). Coauthor: Allison Peeler
- 2014: Coauthor: Cargill Grant, purchase of a 400mm lens for biology department to be used for both biology and environmental studies students. (\$1500) Coauthor: Drew Crain
- 2014: Coauthor: Appalachian College Association (ACA) Ledford Scholarship (\$5080) Coauthor: Mary Feely
- 2013: Author: Cargill Grant: for purchase of equipment and supplies to determine the presence of a flying squirrel (*Glaucomys volans*) population in the Maryville College Woods. (\$3000)
- 2013: Maryville College Institutional Funding: Big Brown Bat (*Eptesicus fuscus*) conservation and research (\$6000)
- 2013: Coauthor: Appalachian College Association (ACA) Ledford Scholarship (\$3000) Coauthor: David Lee Haskins
- 2013: Coauthor: Centers for Career and Counseling, Maryville College (\$4000) Coauthor: David Lee Haskins
- 2011: Burbick Foundation Faculty Development Grant (\$2820)
- 2010: Burbick Foundation Faculty Development Grant (\$3405)
- 2009: Burbick Foundation Faculty Development Grant (\$1700)
- 2008: Alderson Broaddus College Travel Grant (~\$1000)
- 2007: Appalachian College Association Travel Grant (\$500)
- 2006: University of Kentucky Travel Grant (\$650)
- 2006: Coauthor: Evaluation of infrared technologies for estimating black bear and elk populations in Kentucky (\$89,913).
- USDA – CSREES (\$39,913)
  - Rocky Mt. Elk Foundation (\$10,000)
  - Turner Foundation (\$40,000)
- 2005: University of Kentucky Travel Grant (\$400)
- 2005: Shikar Safari Club International (\$20,000)
- 2004: University of Kentucky Travel Grant (\$1,000)
- 2002: Foundation Grant – Mr. Thomas Litwiler (\$30,000)
- 2001: Foundation Grant – Mr. Thomas Litwiler (\$3,000)
- 2000: Appalachian College Association Travel Grant (\$500)

1995: Milwaukee Zoological Society Grant (\$500)

1990: Au Sable Institute of Environmental Studies Scholarship (\$unknow)

**Manuscript Reviewer:**

- Wildlife Biology
- American Midland Naturalist
- Bulletin of the Southern California Academy of Sciences
- Acta Theriologica (now Mammal Research)

**Selected Publications** (Published, In Press, or In Review):

Haskins, D.L.\*, M. Feely, J.J. Jacquot, P.W. Keenlance, R.L. Sanders, J.A. Daly, and **D.E. Unger**. 2020. Small Mammal Prey Base for American Marten (*Martes americana*) within the Manistee National Forest of Michigan. *American Midland Naturalist* 183: 38-51.

\*Maryville College Senior Study Student

Haskins, D.L.\*, J.J. Enz, and **D. E. Unger**. 2017. Social behavior of the Sharptail snake eel (*Myrichthys breviceps*) on a southern reef of Bonaire. *Caribbean Naturalist* 44:1-4.

\*Maryville College Senior Study Student

Sanders, R. L., A. Cornman, P. Keenlance, J.J. Jacquot, **D. E. Unger**, and M. Spriggs. 2017. Resting Site Characteristics of American Marten in the Northern Lower Peninsula of Michigan. *American Midland Naturalist*. 177:211-225.

Sazatornil, V. A. Rodríguez, M. Klaczek, M. Ahmadi, F. Álvares, S. Arthur, J. Blanco, B. Borg, H. Cluff, Y. Cortés, E. García, E. Geffen, B. Habib, Y. Iliopoulos, M. Kaboli, M. Krofel, L. Llana, F. Marucco, J. Oakleaf, D. Person, H. Potočník, N. Razen, H. Rio-Maior, H. Sand, **D. Unger**, P. Wabakken and J. López-Bao. 2016. The role of human-related risk in breeding site selection by a large carnivore. *Biological Conservation* 201:103-110.

**Unger, D.E.**, J.J. Cox, H.B. Harris, J.L. Larkin, B. Augustine, S. Dobey, J.M. Guthrie, J.T. Hast, R. Jensen, S. Murphy, J. Plaxico, and D.S. Maehr. 2013. History and current status of the black bear in Kentucky. *Northeastern Naturalist* 20:289-308.

**Unger, D.E.**, P.W. Keenlance, B.E. Kohn, and E.M. Anderson. 2009. Factors influencing gray wolf homesite selection in northwestern Wisconsin and East-Central Minnesota. Pages 175 – 190 *in*: Wydeven, A.P., T.R. Van Deelen, and E.J. Heske (editors). *Recovery of Gray Wolves in the Great Lakes Region of the United States: An Endangered Species Success Story*. Springer, New York, NY, USA.

J.L. Larkin, D.S. Maehr, J. Krupa, K. Alexy, J.J. Cox, **D. Unger**, and C. Barton.

2008. Small Mammal Response to Vegetation and Soil Conditions on a Reclaimed Surface Mine in Eastern Kentucky. *Southeastern Naturalist* 7:401-412.

**Unger, D.E.**, S. Fei, and D.S. Maehr. 2008. Ecological niche factor analysis to determine habitat suitability of a recolonizing carnivore. Pages 237 – 250 *in* P. Bettinger, K. Merry, S. Fei, J. Drake, N. Nibbelink, and J. Hepinstall (editors). Proceedings of the 6<sup>th</sup> Southern Forestry and Natural Resources GIS Conference. Warnell School of Forestry and Natural Resources, University of Georgia, Athens, GA.

**Unger, D.E.** and D.S. Maehr 2005. Colonization of the black bear in Kentucky: Ecological Findings. *Eastern Bear Workshop*, Tallahassee, FL 18:38-42.

Kohn, B.E., J.L. Frair, **D.E. Unger**, T.M. Gehring, D.P. Shelly, E.M. Anderson, and P.W. Keenlance. 1999. Impacts of Highway construction on wolves in northwestern Wisconsin. pp. 53-65 *in* Evink, G.L., P. Garrett, and D. Zeigler (editors). Third International Conference on Wildlife Ecology and Transportation. Florida DOT. 330 pp.

#### **Recent Conference Presentations (Since 2013) by Undergraduate Senior Study Students:**

- 2019: American Chestnut Foundation National Annual Conference, Gettysburg, Pennsylvania. Success of American chestnut (*Castanea dentata*) hybrid seedlings in a Walland, TN backcross seed orchard. Student: Kathryn Maley
- 2017: Association of Southeastern Biologists Meetings, Montgomery, Alabama. Basking Behavior of the Bonaire Whiptail Lizard (*Cnemidophorus murinus*) on the island of Bonaire, Municipality of the Netherlands. Student: Julia Vineyard.
- 2017: Association of Southeastern Biologists Meetings, Montgomery, Alabama. Burrow use, population dynamics, and reaction to control burning practices of gopher tortoise (*Gopherus polyphemus*) on Cumberland Island National Seashore, Georgia. Student: Thomas Moore
- 2016: Gopher Tortoise Council Meetings, Palatka, FL. Burrow use, population dynamics, and reaction to control burning practices of gopher tortoise (*Gopherus polyphemus*) on Cumberland Island National Seashore, Georgia. Student: Thomas Moore
- 2016: Appalachian College Association Summit, Kingsport, TN. Burrow use, population dynamics, and reaction to control burning practices of gopher tortoise (*Gopherus polyphemus*) on Cumberland Island National Seashore, Georgia. Student: Thomas Moore

- 2016: 22<sup>nd</sup> Wildlife Society Meetings, Raleigh, NC. Burrow use, population dynamics, and reaction to control burning practices of gopher tortoise (*Gopherus polyphemus*) on Cumberland Island National Seashore, Georgia. Student: Thomas Moore
- 2016: Association of Southeastern Biologists Meetings, Concord, NC. Burrow use, population dynamics, and reaction to control burning practices of gopher tortoise (*Gopherus polyphemus*) on Cumberland Island National Seashore, Georgia. Student: Thomas Moore
- 2015: Appalachian College Association Summit, Kingsport, TN. Burrow use, population dynamics, and reaction to control burning practices of gopher tortoise (*Gopherus polyphemus*) on Cumberland Island National Seashore, Georgia. Student: Thomas Moore
- 2015: Association of Southeastern Biologists Meetings, Chattanooga, TN. Small mammal trapping success, density, diversity, and distribution within American marten (*Martes americana*) habitat in the Lower Peninsula of Michigan. Student: Mary Feely
- 2015: Association of Southeastern Biologists Meetings, Chattanooga, TN. Impact of a Small Woodlot on Biotic and Chemical Stream Quality. Student: Natalia Mock
- 2015: Association of Southeastern Biologists Meetings, Chattanooga, TN. Basking behavior of the Bonaire Whiptail Lizard (*Cnemidophorus murinus*) on the island of Bonaire, Municipality of the Netherlands. Student: Lauren Bonee
- 2015: Association of Southeastern Biologists Meetings, Chattanooga, TN. Reef Fish Diversity as associated with anthropogenic impact on the island of Bonaire, Municipality of the Netherlands. Student: Hana Henry
- 2014: 21<sup>st</sup> Wildlife Society Meetings, Pittsburgh, PA. Small mammal trapping success, density, diversity, and distribution within American marten (*Martes americana*) habitat in the Lower Peninsula of Michigan. Student: Mary Feely
- 2014: Appalachian College Association Meetings, Knoxville, TN. Small mammal trapping success, density, diversity, and distribution within American marten (*Martes americana*) habitat in the Lower Peninsula of Michigan. Student: Mary Feely
- 2013: 20<sup>th</sup> Wildlife Society Meetings, Milwaukee, WI. Small mammal density, diversity, and distribution within American marten (*Martes americana*) habitat in the Lower Peninsula of Michigan. Student:

David Lee Haskins

- 2013: Appalachian College Association Meetings, Knoxville, TN. Small mammal density, diversity, and distribution within American marten (*Martes americana*) habitat in the Lower Peninsula of Michigan.  
Student: David Lee Haskins

**Conference Presentations (As Senior Author):**

- 2013: Poster: 20<sup>th</sup> Annual Wildlife Society Meetings, Milwaukee, WI  
2009: Poster: 16<sup>th</sup> Annual Wildlife Society Meetings, Monterey, CA  
2008: Speaker: 15<sup>th</sup> Annual Wildlife Society Meetings, Miami, FL  
2008: Speaker: 6<sup>th</sup> Southern Forestry and GIS Resources, Orlando, FL  
2006: Poster: 13<sup>th</sup> Annual Wildlife Society Meetings, Anchorage, AK  
2005: Speaker: 12<sup>th</sup> Annual Wildlife Society Meetings, Madison, WI  
2005: Speaker: Kentucky Wildlife Society Meetings, Pineville, KY  
2005: Speaker: Eastern Black Bear Workshop, Tallahassee, FL  
2004: Speaker: 11<sup>th</sup> Annual Wildlife Society Meetings, Calgary, Canada  
2000: Poster: Beyond 2000 International Wolf Conference, Duluth, MN  
1997: Speaker: 59<sup>th</sup> annual Midwest Wildlife Conference, Milwaukee, WI  
1996: Poster: Milwaukee Zoological Society Meeting.  
1995: Speaker: 57<sup>th</sup> annual Midwest Wildlife Conference, Detroit, MI  
1992: Speaker: National Sigma Zeta Honor Society Meeting, Decatur, IL

**Study Abroad Experience:**

- May 2023: Exploratory Trip: Galapagos Islands, Ecuador. Investigated Islands for possible future study abroad experience for undergraduate students at Maryville College.
- May 2020: Trip Leader: New Zealand. All preparation made, trip itinerary set, relationships in country established, activities finalized. Trip Cancelled due to COVID-19 global pandemic.
- May 2019: Trip Leader: Bonaire, Municipality of the Netherlands. Eleven (11) undergraduate students learned about the history, culture, and natural history of coral reefs and terrestrial habitats of Bonaire. Two senior studies involving reef fish diversity and biofluorescence of corals were completed on this trip..
- Jan 2017: Trip Leader: New Zealand. Ten (10) undergraduate students were exposed to the natural history, conservation efforts, architecture, economy, indigenous people, and culture of New Zealand.
- June 2016: Co-Leader: Bonaire, Municipality of the Netherlands assisting 2 professors and 16 students (graduate and undergraduate) from Maryville College, Marshall University (WV) and Jacksonville University (FL) using SCUBA.

- March 2016: Trip Leader: Bonaire, Municipality of the Netherlands. Fourteen (14) undergraduate students were involved in 5 different senior study projects ranging from reef health to the physiology of diving.
- May 2014: Co-Leader: Bonaire, Municipality of the Netherlands. Twenty (20) students (graduate and undergraduate) from Marshall University (WV) and Jacksonville University (FL) using SCUBA.
- March 2014: Trip Leader: Bonaire, Municipality of the Netherlands. Twelve (12) undergraduate students. This was the first ever Maryville College, Natural Sciences Division Study Abroad course focused on scientific research and ecological investigation using SCUBA. This also introduced to Maryville College the concept of a semester imbedded study abroad.
- March 2012: Trip Leader: Bonaire, Municipality of the Netherlands. Twelve (12) undergraduate students were involved in both terrestrial and aquatic research (using SCUBA).
- March 2011: Co-Leader: Bonaire, Municipality of the Netherlands. Twelve (12) undergraduate students were involved in both terrestrial and aquatic research (using SCUBA).
- May, 2009: Co-leader: South Africa. Took 21 undergraduate students to The Wildlife College, Kruger National Park, private nature preserves (e.g., Timbavati, Manyeleti), and local communities of eastern South Africa.
- March, 2009: Exploratory trip to New Zealand for the Natural Science Division, AB College, Philippi, WV.

### **Honors and Awards:**

- 2019: Course Director of the Year: South College Physician Assistant Program, South College, Knoxville, TN.
- 2019: Induction by Fellow Faculty into Phi Alpha, the National Physician Assistant Honor Society. South College, Knoxville, TN
- 2014: Outstanding Teacher of the Year: Maryville College, Maryville, TN
- 2012: Runner-Up: Outstanding Faculty Member of the Year award, Alderson Broaddus College, Philippi, WV
- 2011: Nominee: Outstanding Faculty Member of the Year award, Alderson Broaddus College, Philippi, WV
- 2002: Who's Who Among America's Teachers
- 1998: Outstanding Student Wildlife Presentation Award, 59<sup>th</sup> Midwest Fish and Wildlife Conference, Milwaukee, WI
- 1992: National Collegiate Natural Sciences Award
- 1990: National Collegiate Natural Sciences Award

### **Institutional Committee Work:**

Maryville College (2012 – present)

- Spring 2022: Member, Quality Enhancement Plan (QEP) Task Force
- 2020/2021: Chair, institutional Animal Care and Use Committee
- 2019/2020: Chair, institutional Animal Care and Use Committee
- 2018/2019: Chair, institutional Animal Care and Use Committee
- 2017/2018: Chair, Institutional Animal Care and Use Committee
- 2016/2017: Institutional Animal Care and Use Committee
- 2015/2016: Institutional Animal Care and Use Committee (IACUC)
- 2014/2015: International Program Committee
- 2014/2015: Lab Fees Advisory Committee (Natural Sciences Committee)
- 2014/2015: Core Curriculum Working Group
- 2013/2014: International Program Committee
- 2013/2014: Student Government Faculty Liaison
- 2013/2014: Student Life Committee
- 2012/2013: Tenure Task Force – Developed document to be used by the board of directors for addressing high tenure percentages on campus
- 2012/2013: Admissions Director Search Committee
- 2012/2013: FYS (first year experience) course development committee

Alderson-Broadus College (1999 – 2002, 2007 – 2012)

- 2011/2012: Strategic planning committee, mineral rights task force, advising task force, committee on committees, study abroad committee, honors program committee, Natural Science Division Honors Awards (NSH).
- 2010/2011: Institutional Budget, Faculty Liaison to the Board, International Studies (chair), Freshman Experience Task Force, NSH
- 2009/2010: Institutional Budget, Faculty Liaison to the Board, NHS, Committee on Committee (COC, Chair)
- 2008/2009: Institutional Budget, Faculty Liaison to the Board, NSH, COC
- 2007/2008: Institutional Budget, NSH
- 2002/2003: Institutional Budget, NSH
- 2001/2002: Institutional Budget, Athletic, NSH
- 2000/2001: Institutional Budget, Educational Personnel Preparation Advisory Committee (EPPAC), Athletic
- 1999/2000: Institutional Budget, EPPAC, Natural Science Division Honors Awards, Athletic Committee

### **Society Memberships:**

The Wildlife Society  
Association of Southeastern Biologists  
The Society for Conservation Biology

### **Related Training:**

- 2015: Animal Psychologist Certification: Online Academies
- 2003: Immobilization Seminar: Kentucky Department of Fish and Wildlife Resources, Frankfort, Kentucky.
- 1996: Safe Capture International: Immobilization seminar, Dr. Keith Amass, Stevens Point, WI.

1994: Wildlife Science Center: Training in the immobilization, vaccination, blood draw, and medical treatment of timber wolves.

**SCUBA Training:**

July 2022: NAUI certified advanced Rescue Diver  
May 2022: Swift Water Awareness Certificate, TN Association of Rescue Squads  
August 2020: NAUI NITROX certification  
August 2017: NAUI Certified Public Safety Diver (PSD)  
December 2016: NAUI Certified Dive Master  
October 2014: PADI certified Aquanaut  
April 2014: NAUI dry suit certified  
May 2012: PADI Certified Rescue Diver  
May 2011: PADI Certified Advanced Open Water Diver  
May 2011: PADI Certified Open Water Diver

**Other Experiences/Skills:**

Spring 2021: Curriculum Development: Assisted in the development of a Bachelor of Science Environmental Science Major at Maryville College.

December 2020: Commencement Speaker: South College Physician Assistant Program Graduation Ceremonies, South College, Knoxville, TN.

March 2020: Invited Lecturer: Creation Care Study Program (CCSP), Kaikoura, New Zealand. See details below.

May 2019: Keynote Speaker: 99<sup>th</sup> annual meeting of the Webster Groves Nature Study Society, St. Louis, Missouri.

March 2019: Invited Lecturer: Creation Care Study Program (CCSP), Kaikoura, New Zealand. See details below.

November 2017: Invited Lecturer: CCSP Environmental Study Abroad Program, Kaikoura, New Zealand. Taught Terrestrial Ecology from November 18 – 26<sup>th</sup>, 2017 spanning ecosystems from the east to west coast over Arthur's Pass on the South Island of New Zealand.

Summer 2017: Independent contractor – GIS: Produced a professional grade map of trails on and near the property of Mountain Homes, Incorporated, Walland, TN using ArcGIS 10.4.1 software.

Summers 2014 - 2019: Teacher, Natural History Interpreter: “Great Smokies Experience”, a program to expose high school students to field biology in the Smoky Mountains.

Summers 2013 - 2020: Presenter/Lecturer. Assisted with NSF funded “Scots Science Scholars”, a program designed to give select freshmen students a “head start” on STEM at Maryville College.

- 2013 – Present: Co-Coordinator, STEMFEST. This is an annual STEM (Science, Technology, Engineering, and Math) carnival put on by the Tri-Beta Biology honor society and the American Chemical Society (ACS) professional group. Carnival attracts ~1000 campus students, area public schools, community, and community partners. Budget from 2013 – 2017 has increased from \$1000 - \$18000 due to increasing popularity and demand.
- April, 201, 2018: Invited speaker: Tellico Village Bird Club, Knoxville, TN.
- October 2016: Invited Speaker: Great Smoky Mountain Chapter of Trout Unlimited, Knoxville, TN.
- Summer 2016: GIS consultant, Carpenter’s Elementary School Wetlands Project. Produced a professional grade map for school using ArcGIS 10.2 software.
- May 2016: Invited Speaker: “Tuesdays at 2” – Great Smoky Mountains Heritage Center, Townsend, TN.
- September 2015: Invited Speaker: “From Research to Application” lecture series, Western Carolina University, Cullowhee, NC.
- Academic Year 2015: Curriculum Development: Created (with a great deal of assistance from colleagues) an Environmental Science Minor at Maryville College.
- February 2015: Invited Speaker: Jacksonville University’s Science and Engineering Lecture Series, Jacksonville, FL.
- October 2014: Curriculum Development: Created a new environmental science minor for Maryville College, Maryville, TN.
- 2014: Created the first professional grade trail map of the Maryville College woods, Maryville, TN.
- July 2014: Invited Speaker: Mountain Wildlife Days, Sapphire, NC.
- May 2014: Invited Speaker: Little River Chapter of Trout Unlimited. Maryville, TN
- January 2014: Invited Speaker: Wilderness Wildlife Week, Gatlinburg, TN.
- August 2013 - 2015: Invited Speaker: Ijams Nature Center Hummingbird Festival, Knoxville, TN.
- Spring 2013: Designed and built a new Geographic Information Systems (GIS) lab for the Natural Sciences Division of Maryville College, Maryville, TN.
- 2012, 2013, 2015: Invited Speaker: Holly Springs Audubon Hummingbird Festival, Holly Springs, MS.

2011: Independent contractor – GIS. Mapping, Data and Attribute restructuring using ArcGIS 9.0 for Alderson Broaddus College, Philippi, WV.

2007 - 2010: Assisted with the “outdoor club”, A-B College

October 2007: Invited Guest Lecturer: Grand Valley State University

Spring 2007, 2008: Invited Speaker: Cumberland Gap National Historic Park. Gave informational talks on black bear ecology, behavior, and safety.

Summers 2003 - 2005: Speaker: Gave presentations to public school children on the ecology and Research field techniques of the American Black Bear at Cumberland Gap National Historic Park.

1994, 1995, 1996: Gave public talks in northern Wisconsin public schools on grey wolf ecology, safety, and wolf conservation.

**Film/Television Credits:**

October 3, 2015: “Rock the Park”, Tremendous Entertainment, Season 2 Episode 1

October 17, 2015: “Rock the Park”, Tremendous Entertainment, Season 2, Episode 3