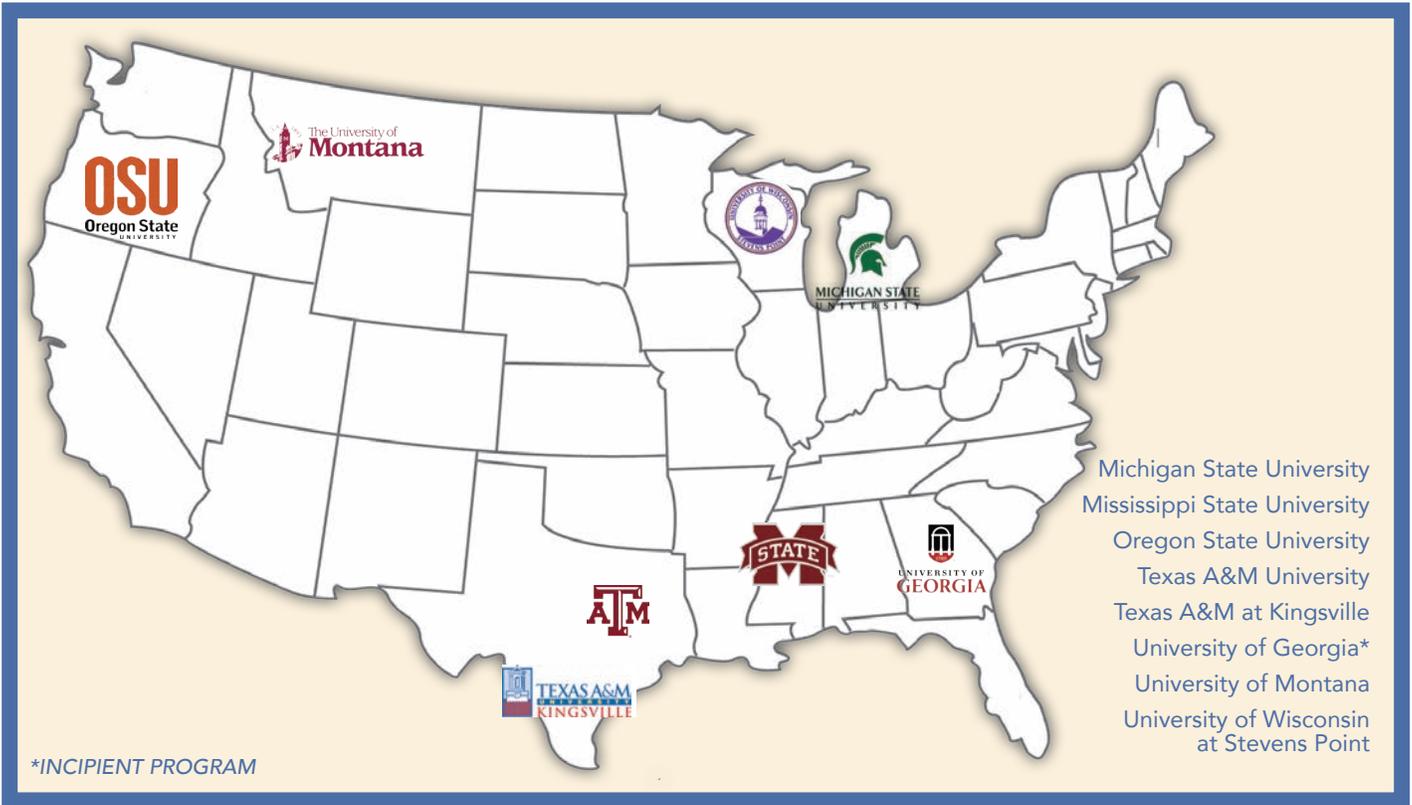


**BOONE AND CROCKETT CLUB  
UNIVERSITY PROGRAMS  
ANNUAL REPORT  
2016**





# BOONE AND CROCKETT UNIVERSITY PROGRAMS



*"It is the mission of the Boone and Crockett Club to promote the conservation and management of wildlife, especially big game and its habitat, to preserve and encourage hunting, and to maintain the highest ethical standards of fair chase and sportsmanship in North America."*

*The University Programs of the Boone and Crockett Club help serve that mission by "facilitating a coordinated system utilizing higher education, including the targeting of universities for professorship and other relative programs where the university is strategically located or has strategic capabilities..."*

## UNIVERSITY PROGRAMS - YEAR IN REVIEW

**3** ENDOWED PROFESSORS IN PLACE



4 GRADUATES  
 from Boone and Crockett University Programs

\*Interns participating in research activities

# WELCOME

Among the Boone and Crockett Club's most forward-looking initiatives is its University Programs. This novel initiative is designed with a bold vision: attract the brightest young people to the strongest universities to work with the foremost wildlife faculty in the country. The Club now has professorship programs at three universities, fellowship programs at four universities, and a new program taking shape at the University of Georgia.

Over the past six years, the Club has rejuvenated these programs with new professors and an expanding fellowship program. New Boone and Crockett professors at Texas A&M and the University of Montana are developing their programs. The professorship program at Michigan State University is maturing, adding more space for a growing research program and gaining recognition for the high-caliber leadership demonstrated by its Boone and Crockett Fellows. Our newest fellowship program is now firmly established at Texas A&M Kingsville. On the horizon is a fourth professorship program at the University of Georgia, one of the nation's finest universities.

The young people we are attracting into these programs bring a passion for wildlife every bit as great as that of the members of the Boone and Crockett Club. We can be proud of our University Programs because we are kindling that passion with an education that one day will lead these people to be the 21st century's premier scientists and leaders in conservation.

We help ensure they carry our values forward, and we are designing new events to bring these students together with Boone and Crockett members. These programs will be in experimental development in the coming year and we look forward to this new chapter.

In this Annual Report for 2016, we profile each of the universities and their respective Boone and Crockett programs to give you a sense of the extraordinary power of our university initiative. We hope you can sense the new energy feeding our original vision and the excitement about the future.

***" CONSERVATION OF NATURAL RESOURCES IS A PUBLIC RESPONSIBILITY AND SCIENCE IS THE KEY TO EFFECTIVE DISCHARGE OF THIS RESPONSIBILITY."***

***-THEODORE ROOSEVELT***



**\$6,000,000+**

Total funding for research activities obtained from sources other than Boone and Crockett endowments



MICHIGAN STATE  
UNIVERSITY

## MICHIGAN STATE UNIVERSITY

### MICHIGAN STATE'S WILDLIFE PROGRAM

Michigan State University (MSU) is the nation's pioneer land-grant university. With roots in the northern hardwood forests, the Great Lakes, and the agricultural ecosystems of the upper Midwest, MSU is home to one of the premier fisheries and wildlife programs in the nation. The Department of Fisheries and Wildlife at MSU includes 45 faculty, more than 200 undergraduate students, and 100 M.S. and Ph.D. students. Its academic programs emphasize ecology, management, policy, and leadership. Graduate students are engaged in research worldwide with government wildlife agencies, non-government conservation organizations, and private businesses. There is a strong emphasis on collaboration with the Michigan Department of Natural Resources, the Great Lakes Fishery Commission, and the U.S. Geological Survey.



### MICHIGAN STATE'S BOONE & CROCKETT PROFESSORSHIP PROGRAM

The Boone and Crockett Professor of Wildlife Conservation serves as a catalyst to bridge science with policy. The professorship program reaches out to the academic community, wildlife managers, policy makers, Boone and Crockett Club members, and other stakeholders to train a new generation of scientists and leaders who will carry on the legacy of wildlife conservation. Dr. William Porter is the first Boone and Crockett Chair of Wildlife Conservation at MSU. With the assistance of the Michigan Boone and Crockett partners, he instituted a program that focuses on game-changing issues facing wildlife conservation and emphasizes the connection between science and wildlife policy. Bill designed and teaches courses in wildlife policy and leadership, supervises graduate students and post-doctoral associates, and serves as Director of the Boone and Crockett Quantitative Wildlife Center. Bill also co-chairs the Boone and Crockett University Programs committee.



DR. WILLIAM PORTER





*The Department of Fisheries and Wildlife at MSU includes 45 faculty, more than 200 undergraduate students, and 100 M.S. and Ph.D. students. Its academic programs emphasize ecology, management, policy, and leadership.*

## **BOONE & CROCKETT QUANTITATIVE WILDLIFE CENTER**

The Boone and Crockett Quantitative Wildlife Center (QWC) is a focus of excellence within the Department of Fisheries and Wildlife and a resource for the Boone and Crockett Club. The Center brings cutting-edge math, statistics, and computer modeling to help state wildlife agencies and the Club as they engage in the most difficult challenges in wildlife conservation. There is a strong emphasis on training students as future scientists and leaders. Research emphasizes challenges to the future of wildlife conservation, including sustainable harvest, disease control, and planning for a future given changing climates and habitat conditions. The program is expanding rapidly with more than \$3 million in support of two dozen students, staff and faculty, including Associate Director Dr. David Williams. Research programs span North America, from suburban environments of central Michigan, to the agricultural landscapes of the 12-state Midwest region, to wilderness habitats of southwest Alaska. Specific projects include estimating black bear abundance across Michigan's Lower Peninsula, assessing disease management strategies for white-tailed deer, understanding trends in wild turkey abundance and sustainable harvest, and estimating brown bear populations in Katmai National Park.

## **BOONE & CROCKETT FELLOW PROFILE**

Dr. Bryan Stevens received his Ph.D. in Fisheries and Wildlife from Michigan State University, as well as M.S. degrees in both wildlife and statistics from the University of Idaho. Bryan's postdoctoral research has focused on one of the most important challenges facing wildlife managers: estimating the abundance of populations. Dr. Stevens is using harvest information paired with reports of hunting effort throughout a hunting season to estimate the size of wild turkey populations. Such estimates are critical to the management of sustainable harvests, particularly for heavily harvested game species like wild turkeys. This work is part of a larger research effort to address wild turkey population management in southern Michigan. Using a structured decision making approach, stakeholders and scientists work together to evaluate turkey management options. Dr. Stevens will begin work as a postdoctoral research associate at the University of Idaho in January 2017.



**UNIVERSITY OF MONTANA'S WILDLIFE PROGRAM**

The University of Montana's Wildlife Biology Program provides students with an extensive background in wildlife ecology, population biology, critical thinking, and quantitative skills. Students become leaders, bringing science to the management of wildlife and fish populations and their habitat, communities, and ecosystems. Faculty and students use the resources of nearby Yellowstone and Glacier National Parks, national forests, and federal wildlife refuges. The National Bison Range serves as a teaching laboratory and research facility, and the University's Biological Station, eighty miles north on Flathead Lake, offers biology courses during the summer and is available for scientific research.

**UNIVERSITY OF MONTANA'S BOONE & CROCKETT PROFESSORSHIP PROGRAM**

With the hiring of Dr. Joshua Millspaugh in fall 2016, the University of Montana's Boone and Crockett program is preparing for the next chapter in its history. Dr. Millspaugh came to the University of Montana from the University of Missouri, where he served on the faculty for nearly 17 years. While at Missouri, his research focused on harvested wildlife populations, with an emphasis on large mammals such as bison, elk, mule deer, white-tailed deer, and pronghorn. His goal is to build a robust and high-caliber research and teaching program at the University of Montana that is centered around pressing conservation issues that directly impact policy and management decisions. Because preparing future conservation leaders is critical to the future of our conservation legacy in North America, he will continue to provide science-based instruction to college students to prepare them to sustainably manage wildlife and natural resources in the future. Pursuing research and teaching with these aims will help assure wise stewardship, application of the best available science, and informed policy decisions.



*DR. JOSHUA MILLSPAUGH*





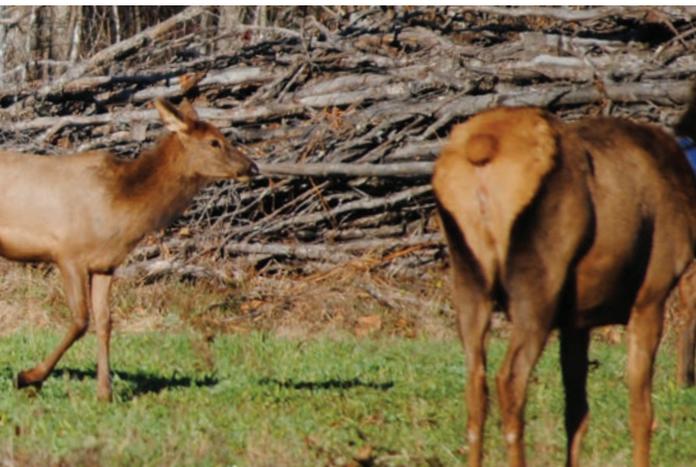
**A central component of the University of Montana's Boone & Crockett program has been a focus on integrating wildlife conservation and land management.**

## **BOONE & CROCKETT CONSERVATION PROGRAM**

A central component of the University of Montana's Boone & Crockett program has been a focus on integrating wildlife conservation and land management. Many contemporary issues in wildlife conservation, such as migration corridors, habitat decisions, energy development, and wildlife disease problems, are related to land management strategies and policies. Current projects include determining habitat requirements and population performance of elk reintroduced in Missouri, assessing possible impacts of oil and gas development on mule deer populations in North Dakota, modeling effects of chronic wasting disease on white-tailed deer populations, and evaluating white-tailed deer survival, movements, and habitat needs in Missouri. New efforts to integrate wildlife conservation and land management will be centered around the Boone and Crockett Club's Theodore Roosevelt Memorial Ranch and the Elmer E. Rasmuson Wildlife Conservation Center, near Dupuyer, Montana. The 6,000 acre working cattle ranch and the Center provide a perfect landscape to conduct research and educational programming about the integration of ranching with wildlife conservation.

### **BOONE & CROCKETT FELLOW PROFILE**

Chloe Wright is a master's student in the University of Montana's Wildlife Biology Program. She is originally from Boca Raton, Florida, and graduated *summa cum laude* from the University of Florida in 2011 with a B.S. in Biology and minors in Anthropology and Wildlife Ecology and Conservation. After graduation, she worked as a wildlife technician on projects throughout the Midwest, studying white-tailed deer, black bears, elk, wolves, coyotes, and bobcats. Working as a technician on these projects helped shape her research interests in large mammal ecology. Chloe is particularly interested in ungulate ecology and management, movement behavior, predator-prey relationships, and human-wildlife interactions. She began her master's program in 2015, working on a large-scale white-tailed deer study in two contrasting regions of Missouri. The project uses GPS radio-collared deer to collect deer survival and recruitment information that is used to assist state wildlife biologists with management strategies and harvest quotas. The GPS collars also provide fine-scale movement information that will help direct disease management protocols and better understand how different landscapes affect deer movement, habitat use, and survival rates.





TEXAS A&M  
UNIVERSITY

## TEXAS A&M UNIVERSITY

### TEXAS A&M'S WILDLIFE PROGRAM

The Department of Wildlife and Fisheries Sciences at Texas A&M University (TAMU) uses the latest in the ecological and management disciplines to provide the most varied and innovative education available in the conservation of the earth's biodiversity. Students in this department conduct research and learn problem-solving skills, focusing on areas that include species extinction, aquaculture food production, environmental education, and wildlife and fisheries recreational activities. Curricula in wildlife and fisheries sciences are designed to provide both the traditional and contemporary dimensions of academic instruction necessary to transform motivated and intellectually capable students into competent professionals. The program offers a bachelor's degree in Wildlife and Fisheries Science, with three concentration areas: (1) Fisheries, Aquaculture, & Aquatic Sciences, (2) Wildlife Ecology & Conservation, or (3) Vertebrate Zoology, as well as M.S. and Ph.D. options.



### TEXAS A&M'S BOONE & CROCKETT PROFESSORSHIP PROGRAM

TAMU welcomed Dr. Perry Barboza in 2015 as the new Boone and Crockett Chair in Wildlife Conservation and Policy. Perry was educated in Australia at University of New South Wales (B.Sc. (Hon) in Zoology) and the University of New England (Ph.D. in Nutrition). He has lived in the United States since 1989, when he joined the Smithsonian Institution in Washington DC as a postdoctoral fellow. Perry served on the faculty at University of Alaska, Fairbanks for 18 years before joining TAMU. He works with students and colleagues to study how animals use the supply of food and water to meet the demands of living in an area. The laboratory group measures what foods animals use, how much food they use and how well they are able to survive and reproduce in an area. Perry's research program attempts to better inform decisions about sustainably managing the landscape for wildlife and to help formulate policies to meet those management goals. The laboratory continues research with moose and caribou in Alaska, while initiating new projects on deer and bison in Texas and other "lower 48" states. They have also begun collaborative studies on state laws and policies for managing wildlife and their habitats.

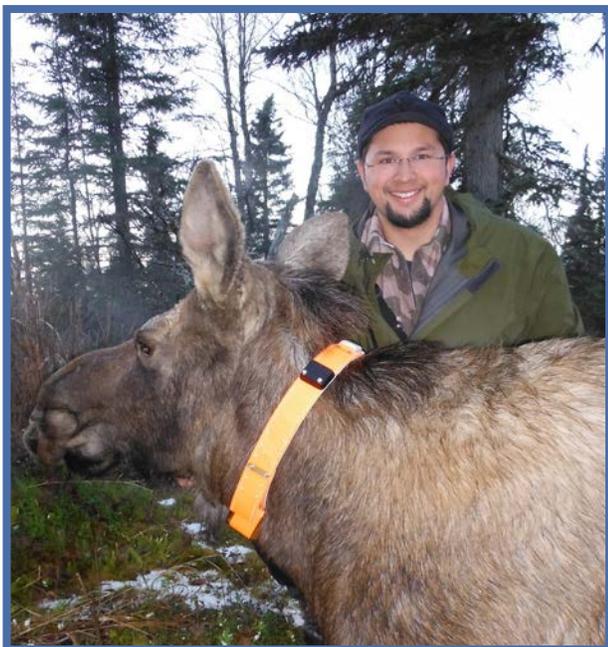


DR. PERRY  
BARBOZA





***Students in this department conduct research and learn problem-solving skills, focusing on areas that include species extinction, aquaculture food production, environmental education, and wildlife and fisheries recreational activities.***



### **BOONE & CROCKETT FELLOW PROFILE**

Dan Thompson is a Ph.D. student at Texas A&M University and a full time wildlife biologist with the Alaska Department of Fish and Game. Dan grew up in western Colorado and obtained a B.Sc. in wildlife biology from Colorado State University. He went to work as a wildlife biologist for the Natural Resources Conservation Service in Colorado, writing wildlife habitat plans, before moving to Alaska. Once in Alaska, Dan received a M.Sc. degree in wildlife biology from the University of Alaska, Fairbanks, researching caribou and reindeer nutrition. Currently, Dan works for the Alaska Department of Fish and Game, and conducts research on captive moose at the Kenai Moose Research Center, and on wild moose on the Kenai Peninsula. His Ph.D. research evaluates how moose respond, both physiologically and behaviorally, to daily and seasonal fluctuations in environmental temperature on the Kenai Peninsula. Thermoregulation and heat stress of moose have become a growing concern for southern populations of moose where summers are hot and populations are declining precipitously. Using internal temperature sensors in moose, Dan is looking at daily and seasonal moose body temperature to determine when moose become stressed from warm temperatures. Using captive moose, he is evaluating how individual moose respond to warm temperature using novel techniques such as heart rate belts, salivary stress hormone levels, and forward-looking infrared thermal images. Dan will use these physiological parameters to evaluate behavioral response of wild moose to temperature, using GPS collars to determine habitat selection. This research will define suitable habitat to sustain moose production, while managing for fire, forestry, and harvest.

## MISSISSIPPI STATE'S WILDLIFE PROGRAM

The Department of Wildlife, Fisheries and Aquaculture in the College of Forest Resources at Mississippi State University is dedicated to ensuring that future generations enjoy wildlife and fisheries in their natural habitats. To meet this goal, the department is focused on training future wildlife and fisheries professionals, conducting regional, national and international research, and providing educational outreach for citizens and landowners. Mississippi State's wildlife faculty are some of the country's leading biologists, developing scientifically-based, adaptive and proactive conservation planning to benefit applied management of wildlife and fisheries. Students are engaged with faculty in developing new methods for wildlife management and restoration through hands-on experiential learning. The Department conducts research in the Mississippi State Forest and Wildlife Research Center through a number of specialized research laboratories and centers that support its focal areas, which include spatial and quantitative ecology, carnivore ecology, deer ecology and management, human-wildlife conflicts, and conservation biology. Mississippi State also benefits from integrated partnerships with the U.S. Geological Survey, the U.S. Fish and Wildlife Service, USDA APHIS Wildlife Services and the Mississippi Department of Wildlife, Fisheries and Parks.



## MISSISSIPPI STATE'S BOONE & CROCKETT FELLOWSHIP PROGRAM

The Boone & Crockett Fellowship program is reaching its third term at Mississippi State. Over the past two years, the program's influence at Mississippi State has facilitated the education, training, and professional development of our nation's future conservation leaders by culturing academic excellence and professional integrity. Since its inception at Mississippi State, the program has been under the direction of professional member Bruce Leopold, former Wildlife, Fisheries and Aquaculture department head and recently-retired professor of wildlife ecology, as well as more recent guidance by Dr. Bronson Strickland, Extension faculty member, and Dr. Andy Kouba, current department head.



*The Department conducts research in the Mississippi State Forest and Wildlife Research Center through a number of specialized research laboratories and centers that support its focal areas, which include spatial and quantitative ecology, carnivore ecology, deer ecology and management, human-wildlife conflicts, and conservation biology.*



## **BOONE & CROCKETT FELLOW PROFILE**

Andrew Smith is a master's student in the Mississippi State Department of Wildlife, Fisheries and Aquaculture. Originally from the Mississippi River Delta town of Greenville, MS, Andrew is a passionate conservationist who enjoys writing, history, traditional archery, and fly-fishing. He received his B.S. in Wildlife and Fisheries Science from Mississippi State, where he worked as an ecological technician on projects with the U.S. Fish and Wildlife Service and the U.S. Geological Survey. After completing his bachelor's degree, Andrew began to explore his interests in biological invasion and natural resources/conservation policy. His master's project is designed to evaluate federal, state, and local policy and legislation regarding wild hog control and eradication. The study will provide state legislators with definitive, model legislation that can be successfully passed with the support of stakeholders and citizens. Andrew's project not only seeks to formulate more strategic and effective wild hog policy, but also hopes to provide a model and legal framework in which other biological invasions may be addressed, especially for those species that may retain some form of recreational value and/or game status. During his time as a Boone and Crockett Fellow, Andrew has participated in domestic and international outreach activities, including coordinating a round-table discussion to create the Pacific Rim Biennial Conference on Human-Wildlife Conflict Resolution and Management, and cultivating professional relationships with the Congressional Sportsmen's Foundation and Legislative Sportsmen's Caucuses.

### **OREGON STATE'S COLLEGE OF FORESTRY**

Oregon State University (OSU) is a land-grant institution that has been educating forestry professionals for a century. OSU's College of Forestry has earned a reputation as a world-class center of teaching and learning about forests and related resources. The College of Forestry offers undergraduate and graduate degrees in three departments: Forest Engineering, Resources & Management, Forest Ecosystems & Society, and Wood Science and Engineering. The College also jointly offers several interdisciplinary programs. OSU's forestry program operates about 14,000 forested acres, most within minutes of campus. Within the College, two faculty specialize in wildlife: Drs. Matt Betts and Jim Rivers. The mission of the College of Forestry is to educate and engage the next generation of scholars, practitioners, and users of the world's forest resources, to conduct distinctive problem-solving and fundamental research on the nature and use of forests and related resources, and to share discoveries and knowledge with others.

### **PROGRAM IN FOREST ECOSYSTEM HEALTH AND FOREST POLICY ANALYSIS**

OSU is pleased to announce the Program in Forest Ecosystem Health and Forest Policy Analysis, which was created in 2016 with the support of four funding partners, including the Boone and Crockett Club. The focus of the program will be on maintaining and restoring healthy forest ecosystems through active forest management on both public and private forests. Specific program priority areas include: (1) developing integrated forest health assessment methods and tools; (2) determining ecological, social and economic impacts of active restoration management strategies; (3) evaluating active management methods and their impact on water quality, fish and wildlife; and (4) providing clear, thoughtful and unbiased analysis of national conservation policy. The Program will accomplish these objectives through integrated teaching, research, policy analysis and outreach programs, intended to develop information and technologies useful in addressing economic, social and ecological aspects of forest ecosystem health and related wildlife issues and concerns.





*The Program will accomplish the objectives through integrated teaching, research, policy analysis and outreach programs, intended to develop information and technologies useful in addressing economic, social and ecological aspects of forest ecosystem health and related wildlife issues and concerns.*

## **BOONE & CROCKETT FELLOW PROFILE**

Dr. Sara Galbraith began a postdoctoral fellowship at Oregon State in April 2016, under the direction of Jim Rivers in the College of Forestry. Sara earned a B.A. in biology from St. Olaf College and a Ph.D. in entomology from the University of Idaho and the Tropical Agricultural Research and Higher Education Center (CATIE) in Costa Rica. Her research is focused on understanding variables that impact native and managed bee populations worldwide. Pollinators are critical to the healthy functioning of terrestrial ecosystems because their pollination services support the foundation of animal populations and agriculture. As a doctoral student, Sara studied the impact of land use change on native and managed bees in northwestern Costa Rica, earning a National Science Foundation fellowship and a U.S. Borlaug Fellowship in Global Food Security. Her current work at OSU examines the impact of wildfire intensity and post-fire management on native bees and pollination services in Oregon. In addition to being the fieldwork leader, she is co-leading the organization of a regional pollinator workshop in 2017, and recently presented preliminary findings at the OSU Postdoc Research Symposium where she won first place in a university-wide research presentation competition.



## TEXAS A&M - KINGSVILLE'S WILDLIFE PROGRAM

Texas A&M University-Kingsville's (TAMUK) wildlife program has 150 undergraduate and 60 graduate students who learn about range and wildlife management in the southwestern United States. These students work with the program's 17 scientists to study wildlife ecology and management, focusing on applied studies that address challenges confronting wildlife biologists. TAMUK has nationally recognized research programs in big game, upland gamebirds, wild cats, waterfowl, wetland birds, and habitat restoration. A unique aspect of TAMUK's wildlife program is the Caesar Kleberg Wildlife Research Institute (CKWRI), a privately funded entity that supports wildlife research at the university. The CKWRI ensures faculty and students have the finest research facilities, including GIS, molecular ecology, necropsy, and forage analysis labs, as well as facilities to work with captive ungulates and birds. TAMUK's vigorous wildlife research programs provide undergraduate and graduate students innumerable opportunities for hands-on experience in a wide variety of research activities. Professional development is further promoted by the TAMUK Student Chapter of The Wildlife Society, which has been recognized as the nation's 'Outstanding Student Chapter' from The Wildlife Society three times. Finally, land ownership patterns in Texas help TAMUK wildlife students understand the critical role of landowners in wildlife conservation. Graduates take this ethic with them when they are hired by state and federal agencies, non-governmental organizations, and landowners throughout the country.

## TAMUK'S BOONE & CROCKETT FELLOWSHIP PROGRAM

The Boone and Crockett Fellowship in Ungulate Research at Texas A&M University-Kingsville started in January 2016. The fellowship is funded by Boone and Crockett regular members from Texas and supports a graduate student studying big game in Texas. The Boone and Crockett Fellow draws on expertise of six faculty studying large mammal ecology and management, as well as range scientists, quantitative ecologists, and GIS specialists. Dr. David Hewitt, a Colorado native, leads the fellowship program. David earned degrees in wildlife biology at Colorado State University, Washington State University, and Virginia Tech before coming to TAMUK more than 20 years ago. He is the Stuart Stedman Chair for White-tailed Deer Research and leads TAMUK's Deer Research Program. His research interests include nutritional ecology, population ecology, and big game management.



*Land ownership patterns in Texas help TAMU-Kingsville wildlife students understand the critical role of landowners in wildlife conservation.*

### **BOONE & CROCKETT FELLOW PROFILE**

Laura Warner is the current Boone and Crockett Fellow at TAMUK. Laura is from Ubyly, Michigan and received her B.S. at Central Michigan University. She is studying the effect of agriculture on mule deer movements, survival, and productivity in the Texas Panhandle. The Boone and Crockett Fellowship was used as a match to attract nearly \$500,000 in funding to support the project from Texas Parks and Wildlife and the Mule Deer Foundation. The research is being conducted collaboratively with Texas Tech University and Sul Ross State University, giving Laura the opportunity to interact with wildlife students and faculty from these universities. She has captured and collared 90 fawns and nearly 100 adult mule deer. She works closely with state agency biologists and interacts regularly with landowners when monitoring collared deer and crops in her study area. In addition to learning about the influence of nutrition on wildlife populations and developing expertise in GIS, Laura is determining the relationships between mule deer and agriculture in the Texas Panhandle. These relationships will enable Texas Parks and Wildlife to account for mule deer movements in census and harvest programs, and enable the agency to predict the effects of agricultural activities and policy on deer, as they relate to changing land use and water availability.





## UNIVERSITY OF WISCONSIN – STEVENS POINT

### UNIVERSITY OF WISCONSIN, STEVENS POINT'S WILDLIFE PROGRAM

The University of Wisconsin-Stevens Point (UWSP) Wildlife Ecology program has over 350 undergraduate wildlife majors and nine full-time faculty members. The Wildlife Ecology program emphasizes undergraduate teaching and incorporates research in areas such as conservation biology, avian ecology, predator ecology, wetland ecology, wildlife health, population dynamics, wildlife damage management and habitat management. Practical, hands-on experience inside and outside the classroom is a cornerstone of the program. Undergraduate courses focus on the problem-solving and scientific skills needed to understand the ecological interactions affecting wildlife management, including game, non-game, endangered, and invasive species. Graduates of the Wildlife Ecology and Management program are academically qualified to become Certified Wildlife Biologists, as stipulated by The Wildlife Society (TWS). UWSP's Wildlife Society Student Chapter is among the best in the nation. In 2016, they were awarded the National Student TWS Chapter of the Year and the North Central Section Student Chapter of the Year.

### UWSP'S BOONE & CROCKETT FELLOWSHIP PROGRAM

The Douglas R. Stephens Boone and Crockett Club Fellowship in Wildlife Conservation is awarded to undergraduate students who display academic excellence and are interested in gaining a background in wildlife conservation and leadership skills. The faculty-mentored student research fellowships further the mission of the Boone and Crockett Club and advance the educational, research, and outreach mission of the College of Natural Resources at UWSP. The fellowship program is led by Dr. Christine Thomas, Dean of the College of Natural Resources, and Steve Menzel, Senior Director of Development.

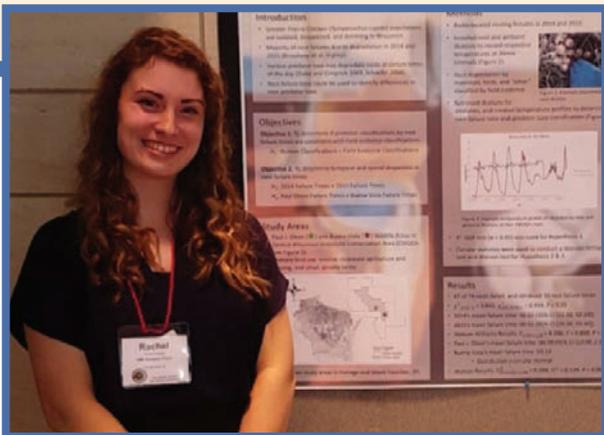




*The Wildlife Ecology program emphasizes undergraduate teaching and incorporates research in areas such as conservation biology, avian ecology, predator ecology, wetland ecology, wildlife health, population dynamics, wildlife damage management and habitat management.*

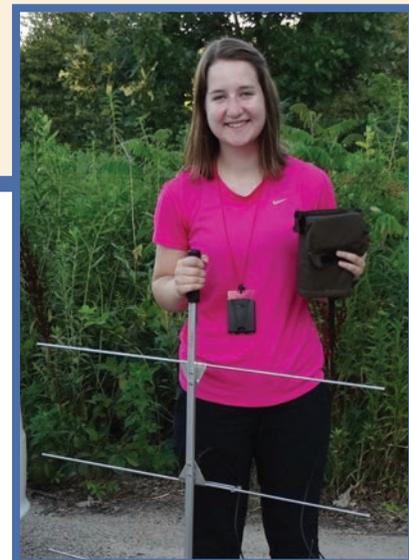
### BOONE & CROCKETT FELLOW PROFILE

Rachel Konkle was awarded the Douglas R. Stephens Boone and Crockett Club Fellowship in spring 2016. She grew up in Sauk City, Wisconsin and is expected to graduate from UWSP in May 2017 with a dual bachelor's degree in Wildlife Ecology - Research and Management, and Communications - Media Studies. Rachel is working on a research project entitled "Estimating the Time of Greater Prairie-Chicken Nest Failure", under the direction of Dr. Jason Riddle, Associate Professor of Wildlife Ecology. This project uses data collection devices that record when hens stop incubating (i.e. when nests fail). Rachel's work aims to link the time of nest failure to predator identification. If this novel approach to predator ID works, it will be far less expensive than traditional nest monitoring methods such as photography and infrared cameras. Moreover, her analysis requires circular statistics, a complex analysis that is not commonly used by researchers for temporal nest ecology, but could provide accurate and useful insights. Rachel's work was highlighted at the 2016 Wisconsin Chapter of TWS Winter Meeting, where she was recognized for best undergraduate presentation. Rachel also presented at the UWSP College of Natural Resources student research symposium, where she received highest honors for her oral presentation. She recently presented her research at the national TWS conference, and is now pursuing writing and publishing this research in a scientific journal within the academic year.



### BOONE & CROCKETT FELLOW PROFILE

Meghan Pluemer was awarded the Douglas R. Stephens Boone and Crockett Club Fellowship in spring 2016. She grew up on a family-run dairy farm in Platteville, WI and has been named to the Dean's List in all six semesters she has attended UWSP. Meghan is expected to graduate in May 2017 with her bachelor's degree in Wildlife Ecology - Research and Management. She is working on a research project to determine whether specific habitat characteristics can explain the presence or absence of heartworm in coyotes and red foxes. Canine heartworm is a parasite transmitted by mosquitoes that results in pulmonary hypertension and heart failure in canids. Heartworm commonly affects domestic dogs, but the disease can also affect coyotes and red foxes. The objectives of this project are to identify the prevalence of canine heartworm in urban coyotes and red fox, to compare the size and home range of radio-collared canids with heartworm to those without heartworm, and to determine if specific habitat characteristics can explain the presence or absence of heartworm. University of Wisconsin-Madison and the UW Urban Canid Project are collaborators on this project. Results will be presented at UWSP's College of Natural Resources Student Research Symposium in the spring of 2017.



## UNIVERSITY OF GEORGIA'S WILDLIFE PROGRAM

The undergraduate and graduate programs in Wildlife Ecology and Management at the University of Georgia (UGA) are located within the Warnell School of Forestry and Natural Resources. The goal for the School is to provide the necessary knowledge and skills to students, professionals, and the public so that forests and related natural resources can be managed in a sustainable and environmentally sound manner for the benefit of human society. There are 14 wildlife faculty members at UGA; two of these hold joint appointments with the Southeastern Cooperative Wildlife Disease Study (SCWDS) in the College of Veterinary Medicine. Four cooperative research and service units are located in the School, harnessing expertise from the U.S. Geological Survey Biological Resources Division and the U.S. Department of Agriculture Wildlife Services. Students earning their wildlife degrees from UGA gain a strong background in the biological, ecological, and managerial aspects of the wildlife profession.

The undergraduate wildlife curriculum provides students with an understanding of the interrelationships between the natural resources that make up the environment, the social, political, legal, and economic forces that influence natural resource management, and the ability to analyze natural resource problems to find realistic alternative solutions. Wildlife graduates meet the educational requirements for Certified Wildlife Biologists, as stipulated by The Wildlife Society.

The graduate program in Wildlife Ecology and Management at UGA is open to M.S. and Ph.D. students. Wildlife faculty members at UGA are active in graduate teaching and research areas, such as population dynamics, community ecology, physiology and nutrition, behavioral ecology, diseases and parasites, habitat management, conservation biology, human dimensions, and biometrics. They conduct research on a variety of species including deer, turkey, quail, and bear.



## UGA'S BOONE & CROCKETT WILDLIFE CONSERVATION PROGRAM

The programmatic focus for the Boone and Crockett Distinguished Professor of Wildlife Conservation at UGA will feature research and graduate education on issues of sustainably managing wild, free-ranging native big game species in the privately owned and commercially managed forest landscape of the southeastern United States. The Southeast has a globally competitive forest products industry and accounts for approximately 60% of the nation's forest products. Private landowners account for 80-90% of forestland across the southeastern United States. Over 60% of the private forestland is family-owned, and landowners are typically supportive of hunting due to the income from leasing hunting rights. Trends in private forestland ownership and the proliferation of commercial wildlife-based and outdoor recreational ventures make it an ideal specialty for this position. We envision that the Boone and Crockett Professor will conduct collaborative and integrative research to establish the "Boone and Crockett Wildlife Policy and Law Center" at UGA. The faculty expertise on the UGA Campus will allow our Boone and Crockett Professor to integrate financial, social, legal, and policy challenges associated with the development of management recommendations for the public and elected decision-makers.





*The programmatic focus will feature research and graduate education on issues of sustainably managing wild, free-ranging native big game species in the privately owned and commercially managed forest landscape of the southeastern United States.*



## **WILDLIFE LAW AT UGA**

As an initial step towards the establishment of the "Boone and Crockett Wildlife Policy and Law Center" at UGA, the Warnell School has already worked collaboratively with the UGA Law School to develop and teach a new graduate-level course in Wildlife Law. The Director of the Georgia Wildlife Resources Division, the Dean of the UGA Law School, and the Dean of the Warnell School worked collaboratively in 2016 to provide support for an attorney to teach a Wildlife Law class during Spring Semester 2017. This course will be taught with the assistance of attorneys from the Association of Fish and Wildlife Agencies, using content for similar law courses they have helped develop at other universities in the United States. This effort exemplifies the strong working relationship that the Warnell School has with our state wildlife agency, which will be a major asset to help ensure the success of the Boone and Crockett Wildlife Policy and Law Center at UGA.





## BOONE AND CROCKETT OUTREACH

The Boone and Crockett Wildlife Outreach Specialist is a first-of-its kind partnership between the Boone and Crockett Club, Michigan State University (MSU) Extension and the Michigan Department of Natural Resources (DNR). Outreach efforts extend the Boone and Crockett Club mission by providing science-based information that residents and policymakers can use to improve the stewardship of our natural resources.

Ms. Jordan Burroughs is the nation's first Boone and Crockett Club wildlife outreach specialist. Her position is a jointly funded venture between MSU Extension and the Michigan DNR, with operational funding provided by an endowment started by the Boone and Crockett Club. Her work focuses on stakeholder engagement, conservation education, science communication, and natural resources leadership development. Jordan creates innovative conservation education and hunting recruitment efforts such as Learn to Hunt (LTH) and Gourmet Gone Wild (GGW).

Hunting provides a deep connection to our food – local, sustainable, healthy and delicious – and that is the nexus between the Gourmet Gone Wild and Learn to Hunt efforts. Of the nonhunting Americans who support hunting, 85% agree that the best motivation to hunt is for the source of meat – a great way to introduce nonhunters to hunting! GGW events emphasize the health benefits, sustainability, and great taste of wild game and fish, and highlight that hunting and fishing are importantly about procuring healthy and enjoyable food. GGW events are designed for young professionals and are held in urban/suburban areas of Michigan where hunting participation is lowest. For more information: <http://www.gourmetgonewild.org/>

Learn to Hunt efforts provide both instructional and hands-on experiences to new and novice adult hunters in Michigan. Many adults are becoming interested in hunting for various reasons, which include: knowing where their food comes from, improving self-sufficiency, and experiencing nature in a unique way. Each Learn to Hunt program provides instructional basics of hunting a Michigan game animal and a mentored hunt opportunity designed to provide confidence for new hunters. During 2016, Jordan and her colleagues offered four Learn to Hunt programs: spring turkey, fall turkey, pheasant, and deer. For more information: <http://www.learntohuntmi.org/>

Jordan is actively involved in statewide, regional and national hunter recruitment, retention, and reactivation (R3) efforts. She currently serves on several statewide and national R3 committees and has been invited to speak to state and national audiences about her R3 efforts and how they relate to the National Hunting and Shooting Sports Action Plan. The National Plan is a coordinated strategy that provides direction to align conservation partners' efforts to increase participation and support for hunting and shooting sports. By building capacity in a parallel approach, agencies, universities, conservation NGOs and industry can combine expertise and resources to preserve our hunting heritage. For more information: [www.nationalr3plan.com](http://www.nationalr3plan.com)



MS. JORDAN  
BURROUGHS





The Cabela's Outdoor Fund recently awarded Gourmet Gone Wild and Michigan's Learn to Hunt Program with over \$145,000 to enhance and expand these two programs across Michigan. This funding will enable these programs to reach new audiences with positive messages about hunting, wildlife, and conservation, while providing adults new to hunting with the know-how and skills to hunt on their own.



*Cabela's*  
OUTDOOR FUND





## DEMME SCHOLARS PROGRAM

Executive in Residence attracts leaders who have national or international reputations, and are willing to share their unique insights with students from a real-world perspective linking theory to practice. The primary focus is teaching and mentoring students in conservation policy, leadership, and advocacy.

Mr. Mark Rey, former Under-secretary for Natural Resources and Environment, is the current Executive in Residence, teaching and mentoring students in conservation policy, leadership, and advocacy. Rey teaches a natural resource advocacy course at Michigan State University, which reviews the types of advocacy groups operating in the natural resources arena, tools and techniques used in environmental advocacy, tactics commonly used in advocacy campaigns, and ethical questions that often arise during advocacy work. He also oversees the Demmer Scholars internship program, which is run in conjunction with his natural resource policy course.

The William A. Demmer Endowed Scholars Program provides opportunities for outstanding undergraduate and graduate students at Michigan State University and Mississippi State University to obtain coveted summer internship positions with NGOs and governmental agencies operating in the natural resources policy arena in Washington, D.C. The Program brings students into contact with Supreme Court justices, White House officials, journalists, and eminent conservationists.

Since 2009, a total of 192 students have been selected to participate in the Demmer Scholars Program. The program is taught in the classroom and through visits with policy makers and field trips in and around Washington, D.C. The interns learn from a broad array of elected officials, policy makers, and natural resource professionals. They have met with Boone & Crockett Club members working in the area, and with the heads of all four federal land management agencies.

During the summer of 2010, we added six Mississippi State University students to the course and increased the number of internships to 25-28 students. This partnership has continued, and we are discussing opportunities with other Boone & Crockett universities. Interns from both universities are interacting with and learning from each other about different natural resources issues. The students make lasting friendships that they can maintain over time and space using social media platforms that this generation has clearly mastered.

The reviews from intern sponsors have been similarly enthusiastic. Since the program's inception, thirty-eight Demmer interns who have finished their academic studies have relocated to Washington, D.C. to start their careers in full time, professional positions in government or the private sector. More will follow. We are educating the next generation of natural resource leaders, and they are starting to take their places.



MR. MARK REY





Above: Demmer Scholars with Col Heather "Lucky" Penney, Air Force pilot who scrambled out of Andrews AFB on Sept 11, 2001.



## BOONE AND CROCKETT FELLOWS



**Dr. Aniruddha Belsare** (Postdoctoral fellow; University of Montana): Modeling chronic wasting disease dynamics and potential impacts on white-tailed deer populations in Missouri (based at University of Missouri; co-advised with Dr. Matt Gompper)



**Kaylee Hollingsworth** (Ph.D. student; Texas A&M): Little and large mammals as indicators of productivity in grasslands



**Thomas Bonnot** (Ph.D. student; University of Montana): Novel approaches to conserving the viability of regional wildlife populations in response to landscape change (based at University of Missouri; co-advised with Dr. Frank Thompson)



**Chris Hoving** (Ph.D. student; Michigan State): Increasing the resilience of wildlife habitat investments by considering multiple plausible scenarios



**Rebecca Cain** (Ph.D. student; Michigan State): Characteristics of areas producing white-tailed deer of Boone and Crockett record status



**Jesse Kolar** (Ph.D. student; University of Montana): Potential effects of oil and gas energy development on movements, resource selection, and demographics of mule deer in western North Dakota (based at University of Missouri)



**Dr. Colter Chitwood** (Postdoctoral fellow; University of Montana): Ecology and management of the restored elk population in Missouri



**Rachel Konkle** (Undergraduate fellow; University of Wisconsin, Stevens Point): Estimating the time of greater prairie-chicken nest failure



**Sonja Christensen** (Ph.D. student; Michigan State): Local-scale assessment and monitoring of deer populations following a major mortality event



**Jeff Martin** (Ph.D. student; Texas A&M): The effect of warming summers on the size and morphology of bison



**Dr. Mike Clawson** (Postdoctoral fellow; University of Montana): Demographic modeling of harvested wildlife (based at University of Washington; co-advised with Dr. John Skalski)



**Elizabeth Matseur** (M.S. student; University of Montana): Population estimate for black-backed woodpeckers in the Black Hills of South Dakota and Wyoming (based at University of Missouri; co-advised with Dr. Frank Thompson)



**Jon Cook** (Ph.D. student; Michigan State): Management solutions for chronic wasting disease in white-tailed deer



**Dr. Jon McRoberts** (Postdoctoral fellow; University of Montana): Survival, recruitment, and movement patterns of white-tailed deer in Missouri (based at University of Missouri)



**Andrew Crosby** (Ph.D. student; Michigan State): Assessing the impact of forest management systems on wildlife and biodiversity



**Keith Oster** (M.S. student; Texas A&M): Forage quality for arctic caribou herds in Alaska



**Kathryn Frens** (Ph.D. student; Michigan State): Unraveling the effects of policy: land protections, habitat quality, and human wellbeing in the U.S. Northern forest



**Dr. Chad Parent** (Postdoctoral fellow; Michigan State): Coordinating the Midwest Wild Turkey Consortium



**Dr. Sara Galbraith** (Postdoctoral fellow; Oregon State): Assessing pollinator response to natural and anthropogenic disturbances in mixed-conifer forests



**Meghan Pluemer** (Undergraduate fellow; University of Wisconsin, Stevens Point): Canine heartworm infection in urban coyotes and red foxes



**Allie Shoffner** (Ph.D. student; Michigan State): American woodcock reproductive rates in relation to forest structure at local and landscape scales



**Daniel Thompson** (Ph.D. student; Texas A&M): Responses of moose to seasonal and diurnal variation in temperature



**Leslie Skora** (M.S. student; Michigan State): Population dynamics of brown bears in Katmai National Park and Preserve



**Daniel Tihanyi** (M.P.A. student; Texas A&M): State wildlife policy in a national environment



**Andrew Smith** (M.S. student; Mississippi State): Investigating effectiveness of wild hog legislation in the U.S.



**Laura Warner** (Undergraduate fellow; Texas A&M Kingsville): Effect of agriculture on mule deer movements, survival, and productivity in the Texas Panhandle



**Jennifer Smith** (M.S. student; Michigan State): The role of density-dependence on movement and resource selection of black bears in the Northern Lower Peninsula of Michigan



**Chloe Wright** (M.S. student; University of Montana): Survival, movements, and resource selection of female white-tailed deer in two different regions of Missouri



**Dr. Bryan Stevens** (Ph.D. student/Postdoctoral fellow; Michigan State): Assessing dynamics and harvest management strategies for wild turkey populations

## WHERE ARE THEY NOW?

**Sonja (Smith) Anderson** (M.S., 2011; University of Montana) - Wildlife biologist with Montana Fish, Wildlife and Parks

**Jamie Belt** (M.S., 2010; University of Montana) - Biologist with the National Park Service

**Danielle Berger** (B.S., 2012; University of Wisconsin, Stevens Point) - Graduate student at the University of Nebraska-Lincoln, researching upland game birds. Welcomed a son in 2015

**Dr. Andrea Bowling** (Ph.D., 2014; Michigan State) - Lecturer at California State University, Dominguez Hills

**Daniella Dekelaita** (M.S., 2013; University of Montana) - Ph.D. student at Oregon State University, studying desert bighorn sheep

**Jonathan Derbridge** (M.S., 2010; University of Montana) - Ph.D. student at University of Arizona, studying applied conservation of endangered mammals

**Nathan Francois** (B.S., 2014; University of Wisconsin, Stevens Point) - Works for the City of Green Bay, WI

**Tessa Hasbrouck** (B.S., 2014; University of Wisconsin, Stevens Point) - Graduate student at the University of Alaska-Fairbanks with Dr. Todd Brinkman, researching effects of climate change on hunting and fishing practices

**Dr. Marta Jarzyna** (Ph.D., 2014; Michigan State) - Postdoctoral Fellow at Yale University, studying climate change and avian biodiversity

**Dr. Megan Kirchgessner** (Ph.D., 2012; Michigan State) - State Wildlife Veterinarian with the Virginia Department of Game and Inland Fisheries

**Michel Kohl** (M.S., 2012; University of Montana) - Ph.D. student at Utah State University, researching wolves in Yellowstone National Park

**Jodi Kreuser** (M.S., 2013; Michigan State) - BSN student at University of Wisconsin, Eau Claire

**Dr. Jerod Merkle** (M.S., 2011; University of Montana) - Postdoctoral associate at University of Wyoming, investigating ungulate migratory behavior

**Dr. Amy Dechen Quinn** (Ph.D., 2010; Michigan State) - Assistant Professor at State University of New York – Cobleskill, Department of Fisheries, Wildlife and Environmental Studies

**Dr. Nathan Snow** (Ph.D., 2014; Michigan State) - Research Biologist at the USDA/APHIS/Wildlife Services, National Wildlife Research Center, working on management and policy goals as they relate to feral swine

**Dr. David Williams** (Ph.D., 2010; Michigan State) - Assistant Professor and Associate Director of the Boone & Crockett Quantitative Wildlife Center at Michigan State University

**Michelle Willis** (B.S., 2015; University of Wisconsin, Stevens Point) - Research technician at University of Georgia in the College of Veterinary Medicine's Southeastern Cooperative Wildlife Disease Study; plans to attend graduate school

**Rob Wingard** (M.S., 2015; University of Montana) - Private lands biologist with the Washington Department of Fish and Wildlife

**Cheyenne Yates** (B.S., 2015; University of Wisconsin, Stevens Point) - White-tailed deer research technician at Ball State University; plans to attend graduate school



## BOONE AND CROCKETT ACCOMPLISHMENTS

### Selected Awards

**Sonja Christensen** (Michigan State) was selected as the Outstanding Graduate Student of the Year by the North Central Section of The Wildlife Society (TWS). She also completed the Emerging Leaders program at the Great Lakes Leadership Academy.

**Andrew Crosby** (Michigan State) was selected as a Graduate Writing Fellow by the Graduate College at Michigan State University.

**Kathryn Frens** (Michigan State) was selected for the Future Academic Scholars in Teaching fellowship by the Center for the Integration of Teaching and Learning at Michigan State University. She also received the Ambrose Pattullo Graduate Fellowship for Literary Work.

**Dr. Sara Galbraith** (Oregon State) was awarded best research presentation at the Oregon State University Postdoc Research Symposium.

**Rachel Konkle** (University of Wisconsin, Stevens Point) was awarded best undergraduate presentation at the 2016 Wisconsin Chapter of TWS Winter Meeting, and she received highest honors for her oral presentation at the UWSP College of Natural Resources student research symposium.

**Sydney Manning** (Michigan State) was awarded a travel grant from the Biometrics Working Group of TWS, to attend the annual meeting in Raleigh, NC.

**Dr. Joshua Millspaugh** (University of Montana) received the North Central Section of TWS Professional Award of Merit.

**Megan Pluemer** (University of Wisconsin, Stevens Point) was inducted into the Kappa Phi Honor Society.

**Jennifer Smith** (Michigan State) was awarded best presentation for a prospective talk at the MSU Fisheries and Wildlife Graduate Research Symposium. She also received the Joseph G. Schotthoefer Memorial Student Award from Safari Club International, Michigan Involvement Committee.

**Texas A&M Kingsville's Ceasar Kleberg Wildlife Research Institute** was the recipient of the 2nd annual Boone & Crockett Club Conservation and Stewardship Award.

### Selected Peer-Reviewed Publications

**Bowling, A. C., D. M. Williams, C. J. Parent, W. F. Porter, M. V. Schiavone, and B. Swift.** 2016. Brooding over broods: Regional impacts of habitat quality on wild turkeys in New York state. *Proceedings of the National Wild Turkey Symposium* 11: 315–328.

**Dechen Quinn, A. C., M. S. Kirchgessner, B. A. Rudolph, D. M. Williams, and W. F. Porter.** 2016. Applying new analytical tools to the wicked problem of wildlife disease management. *Transactions of the North American Wildlife and Natural Resources Conference*. In press.

Fremgen, A. L., C. P. Hansen, M. A. Rumble, R. S. Gamo, and **J. J. Millspaugh.** 2016. Male greater sage-grouse detectability on leks. *Journal of Wildlife Management* 80: 266–274.

Gann, W. J., T. E. Fulbright, E. D. Grahmann, **D. G. Hewitt, C. A. DeYoung, D. B. Wester, B. A. Korzekwa, K. N. Echols, D. A. Draeger.** 2016. Does supplemental feeding of white-tailed deer alter response of palatable shrubs to browsing? *Rangeland Ecology and Management* 69:399–407.

Guber, A. K., **D. M. Williams, A. C. Dechen Quinn, S. B. Tamrakar, W. F. Porter,** and J. B. Rose. 2016. Model of pathogen transmission between livestock and white-tailed deer in fragmented agricultural and forest landscapes. *Environmental Modelling and Software* 80:185–200.

Jachowski, D., R. Slotow, P. Angermeier, and **J. J. Millspaugh.** 2016. The future of animal reintroduction: reintroduction of fish and wildlife populations. University of California Press (eds. D. S. Jachowski, J. J. Millspaugh, P. Angermeier, and R. Slotow). pp. 367–80.

**Jarzyna, M. A., B. Zuckerberg, A. O. Finley and W. F. Porter.** 2016. Synergistic effects of climate and land cover: grassland birds are more vulnerable to climate change. *Landscape Ecology*. In press.

Kays, R., A. W. Parson, M. C. Baker, E. L. Kalies, T. Forrester, R. Costello, C. T. Rota, **J. J. Millspaugh,** and W. J. McShea. 2016. Does hunting or hiking affect wildlife communities in protected areas? *Journal of Applied Ecology* DOI: 10.1111/1365-2664.12700.

Kilshaw, K., R. A. Montgomery, R. Campbell, D. Hethrington, P. Johnson, D. W. MacDonald, and **J. J. Millspaugh.** 2016. Mapping the spatial configuration of hybridization risk for an endangered population of Scottish wildcat (*Felis silvestris silvestris*). *Mammal Research* 61:1–11.

LeBrun, J. J., W. E. Thogmartin, F. R. Thompson, III, W. D. Dijak, and **J. J. Millspaugh.** 2016. Assessing the sensitivity of avian species abundance to land cover and climate. *Ecosphere*: DOI: 10.1002/ecs2.1359.

Michel, E. S., S. Demarais, B. K. Strickland, J. L. Belant, and **J. J. Millspaugh.** 2016. Abundance food reduces hierarchy strength in adult female white-tailed deer. *Behaviour* 153:49–67.

Notaro, M., M. Schummer, Y. Zhong, S. Vavrus, L. Van Den Elsen, J. Coluccy, and **C.L. Hoving.** 2016. Projected influences of changes in weather severity on autumn-winter distributions of dabbling ducks in the Mississippi and Atlantic flyways during the twenty-first century. *PLOS ONE*: In Press.

**Parent, C. J., F. Hernandez, L. A. Brennan, D. B. Wester, F. C. Bryant, and M. J. Schnupp.** 2016. Northern bobwhite abundance in relation to precipitation and landscape structure. *Journal of Wildlife Management* 80:7–18.

Rota, C. T., M. A. R. Ferreira, R. W. Kays, T. D. Forrester, E. L. Kalies, W. J. McShea, A. W. Parsons, and **J. J. Millspaugh.** 2016. A multispecies occupancy model for two or more interacting species. *Methods in Ecology and Evolution* 7:1164–1173.

Schreiber, L. A., C. P. Hansen, M. A. Rumble, **J. J. Millspaugh**, F. R. Thompson, III, S. Gamo, J. Kehmeier, and N. Wojcik. 2016. Greater sage-grouse nest productivity and chick survival prior to wind energy development in Wyoming. *Wildlife Biology* 22:37-44.

Snyder, J. C., X. Gao, J. H. Schulz, and **J. Millspaugh**. 2016. Reanalysis of historical mourning dove nest data using a Bayesian approach. *Journal of Fish and Wildlife Management* 7:1-12.

**Stevens, B. S.**, J. R. Bence, **W. F. Porter**, and **C. J. Parent**. 2016. Ecology matters: robustness and management tradeoffs for maximum harvests of wild turkeys. *Proceedings of the National Wild Turkey Symposium* 11:189-210.

Wolf, A. J., R. B. Renken, D. K. Fantz, X. Gao, and **J. J. Millspaugh**. 2016. Effects of 3 forest management systems on herpetofaunal diversity over 23 years in the Missouri Ozarks. *Forest Ecology and Management* 379:252-264.

Zabransky, C. J., **D. G. Hewitt**, R. W. DeYoung, S. S. Gray, C. Richardson, A. R. Litt, and C. A. DeYoung. 2016. A detection probability model for aerial surveys of mule deer. *Journal of Wildlife Management* 80:1379-1389.

## Selected Popular Articles

**Cain, R. L.**, and **D. M. Williams**. B&C Records: Why they began, how far they have come, and where they can go. *Fair Chase – the Official Publication of the Boone and Crockett Club*. Fall 2016. pp. 74-76.

**Cain, R. L.** Cracking the Monster Buck Mystery. *Wisconsin's Whitetail Classic – Published Annually by the Wisconsin Buck & Bear Club*. 2016. pp. 30.

**Cain, R. L.** Thank You Michigan Chapter of SCI. *The Tracker- Publication of Michigan Chapter of Safari Club International*. Summer 2016. pp. 8-9.

**Porter, W.** and **Stevens, B.** Project aims to manage turkey numbers. *Michigan Farmer Magazine*, September 2016.

**Smith, A.** and **B. Strickland**. 2016. Invasive Species: Impacts and Consequences on Mississippi's Wildlife and People. *Mississippi Wildlife* 20: 20-24.

## Instruction by Boone and Crockett Professors

Fish & Wildlife Laws and Administration. **P. Barboza**.

Functional Ecology and Management of Wild Ungulates. **P. Barboza**.

Graduate Seminar - Wildlife Conservation in the Year 2036. **W. Porter**.

## Selected Outreach and Professional Activities

Association of Fish and Wildlife Agencies, National Fish and Wildlife Health Initiative Steering Committee - **S. Christensen**, Coordinator.

Association of Fish and Wildlife Agencies Climate Change and Endangered Species Subcommittee - **C. Hoving**.

Boone and Crockett Partnership with Texas A&M University. Presentation to College of Agriculture and Life Sciences Development group. October 2016 - **P. Barboza**.

Consumption and Conservation. Invited Presentation to the Joseph W. Jones Ecological Research Center, Newton, Georgia. November 2016 - **J. Millspaugh**.

Deer Anatomy: Learning about Deer from the Inside Out. *Women of the Land Workshop at Welder Wildlife Refuge*. October 2016 - **D. Hewitt**.

Leopold's Land Ethic. Invited Presentation at "Learn-to-Hunt Program" for University of Montana students, Theodore Roosevelt Memorial Ranch, Dupuyer, Montana, September 2016 - **J. Millspaugh**.

Michigan State University Extension, 4-H Great Lakes and Natural Resources Camp - **A. Crosby**, Instructor and Mentor.

Michigan Chapter of The Wildlife Society – **D. Williams**, President.

Michigan Wild Turkey Stakeholder Group - **B. Stevens, C. Parent, W. Porter, and D. Williams**, Members.

Midwest Deer and Turkey Technical Committee - **W. Porter and C. Parent**, Members.

National Wild Turkey Symposium - **W. Porter**, Steering Committee Member and Associate Editor.

Research in the University of Montana Boone and Crockett Program. Invited Presentation to the University of Montana President's Advisory Council, October 2016 - **J. Millspaugh and C. Wright**.

The Role of Hunting in Wildlife Management. Invited Presentation at "Learn-to-Hunt Program" for University of Montana students, Theodore Roosevelt Memorial Ranch, Dupuyer, Montana, September 2016 - **J. Millspaugh**.

Texas Parks and Wildlife Partnership Development. March & April 2016 - **P. Barboza**.

Texas Wildlife Association Private Lands Workshop. July 2016 - **P. Barboza**.





**This report was created by the Michigan State University  
Boone and Crockett Quantitative Wildlife Center,  
in cooperation with the Boone and Crockett Club.**

Design by Karlie Slayer, Rose Stewart and David Williams.