

# Christopher Rota

West Virginia University  
School of Natural Resources  
Wildlife and Fisheries Resources Program  
PO Box 6125, Morgantown, WV 26506-6125

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## PROFESSIONAL INTERESTS

Statistical ecology, habitat ecology, wildlife demography, population ecology, species distribution modeling, conservation biology

## EDUCATION

**Doctor of Philosophy**, Fisheries and Wildlife Sciences May 2013

The University of Missouri, Columbia, MO

*Major Advisor:* Joshua Millspaugh

*Committee Members:* Chad Lehman, Mark Rumble, Mark Ryan, Frank Thompson III, Christopher Wikle

*Dissertation Title:* Not all forests are disturbed equally: Population dynamics and resource selection of Black-backed Woodpeckers in the Black Hills, South Dakota

*Graduate Minor:* Statistics

**Master of Arts**, Statistics May 2015

The University of Missouri, Columbia, MO

*Major Advisor:* Christopher Wikle

*Committee Members:* Scott Holan, Joshua Millspaugh

*Project Title:* A two-species occupancy model accommodating simultaneous spatial and interspecific dependence

**Master of Science**, Wildlife Ecology and Conservation May 2009

The University of Florida, Gainesville, FL

*Major Advisor:* Robert Fletcher, Jr.

*Committee Members:* Robert Dorazio, John Hayes

*Thesis Title:* Confronting assumptions of occupancy estimation and species distribution models: The problem of detectability in wildlife populations

**Bachelor of Science**, Wildlife Biology December 2006

The University of Montana, Missoula, MT

Graduated with High Honors

**Bachelor of Arts**, Environmental Studies December 2001

State University of New York, University at Buffalo, Buffalo, NY

Graduated Cum Laude

## PROFESSIONAL APPOINTMENTS

- Assistant Professor** January 2016 – present  
West Virginia University, Morgantown, WV
- Research Associate & Affiliate Graduate Faculty** July 2015 – December 2015  
The University of Missouri, Columbia, MO
- Postdoctoral Fellow** May 2013 – July 2015  
The University of Missouri, Columbia, MO  
*Supervisor:* Joshua Millspaugh

## PEER-REVIEWED PUBLICATIONS

- Lehman, C.P., **C.T. Rota**, J.D. Raithel, and J.J. Millspaugh. *Accepted*. Pumas affect elk dynamics in absence of other large carnivores. *Journal of Wildlife Management* DOI: 10.1002/jwmg.21392
- Fremgen, A.L., **C.T. Rota**, C.P. Hansen, M.A. Rumble, R.S. Gamo, and J.J. Millspaugh. 2017. Male greater sage-grouse movements among leks. *Journal of Wildlife Management* 81:498-508.
- Lehman, C.P., **C.T. Rota**, M.A. Rumble, and J.J. Millspaugh. 2017. Characteristics of successful puma kill sites of elk in the Black Hills, South Dakota. *Wildlife Biology* DOI: 10.2981/wlb.00248.
- Kays, R., A.W. Parsons, M.C. Baker, E.L. Kalies, T. Forrester, R. Costello, **C.T. Rota**, J.J. Millspaugh, and W.J. McShea. 2017. Does hunting or hiking affect wildlife communities in protected areas? *Journal of Applied Ecology* 54:242-252.
- Rota, C.T.**, A.J. Wolf, R.B. Renken, R.A. Gitzen, D.K. Fantz, R.A. Montgomery, M.G. Olson, L.D. Vangilder, and J.J. Millspaugh. 2017. Long-term impacts of three forest management strategies on herpetofauna abundance in the Missouri Ozarks. *Forest Ecology and Management* 387:37–51.
- Rota, C.T.**, A.J. Wolf, R.B. Renken, R.A. Gitzen, D.K. Fantz, R.A. Montgomery, M.G. Olson, L.D. Vangilder, and J.J. Millspaugh. 2016. Simulated data and code for analysis of herpetofauna response to forest management in the Missouri Ozarks. *Data in Brief* 9:477-479.
- 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 multi-species occupancy model for two or more interacting species. *Methods in Ecology and Evolution* 7:1164-1173.

- Jachowski, D.S., **C.T. Rota**, C.A. Dobony, W.M. Ford, and J.W. Edwards. 2016. Seeing the forest through the trees: Considering roost-site selection at multiple spatial scales. *PLoS ONE* 11:e0150011.
- Lehman, C.P., M.A. Rumble, **C.T. Rota**, B.J. Bird, D.T. Fogarty, G.C. Brundige, and J.J. Millspaugh. 2016. Elk resource selection at parturition sites in the Black Hills, South Dakota. *Journal of Wildlife Management* 80:465-478.
- Hutto, R.L., R.E. Keane, R.L. Sherriff, **C.T. Rota**, L.A. Eby, and V.A. Saab. 2016. Toward a more ecologically informed view of severe forest fires. *Ecosphere* 7:e01255.
- Rota, C.T.**, C.K. Wikle, R.W. Kays, T.D. Forrester, W.J. McShea, A.W. Parsons, and J.J. Millspaugh. 2016. A two-species occupancy model accommodating simultaneous spatial and interspecific dependence. *Ecology* 97:48-53.
- Rota, C.T.**, M.A. Rumble, C.P. Lehman, D.C. Kesler, and J.J. Millspaugh. 2015. Apparent foraging success reflects habitat quality in an irruptive species, the Black-backed Woodpecker. *Condor: Ornithological Applications* 117:178-191.
- Rota, C.T.**, J.J. Millspaugh, M.A. Rumble, C.P. Lehman, and D.C. Kesler. 2014. The role of wildfire, prescribed fire, and mountain pine beetle infestations on the population dynamics of black-backed woodpeckers in the Black Hills, South Dakota. *PLoS ONE* 9:e94700.
- Rota, C.T.**, M.A. Rumble, J.J. Millspaugh, C.P. Lehman, and D.C. Kesler. 2014. Space use and habitat associations of Black-backed Woodpeckers (*Picoides arcticus*) occupying recently disturbed forests in the Black Hills, South Dakota. *Forest Ecology and Management* 313:161-168.
- Rota, C.T.**, J.J. Millspaugh, D.C. Kesler, C.P. Lehman, and M.A. Rumble. 2013. A re-evaluation of a case-control model with contaminated controls for resource selection studies. *Journal of Animal Ecology* 82:1165-1173.
- McCarthy, K.C., R.J. Fletcher, Jr., **C.T. Rota**, and R.L. Hutto. 2012. Predicting species distributions from samples collected along roadsides. *Conservation Biology* 26:68-77.
- Lehman, C.P., D.C. Kesler, **C.T. Rota**, M.A. Rumble, E.M. Seckinger, T.M. Juntti, and J.J. Millspaugh. 2011. Netguns: A technique for capturing black-backed woodpeckers. *Journal of Field Ornithology* 82:430-435.
- Rota, C.T.**, R.J. Fletcher, J. Evans, and R.L. Hutto. 2011. Does addressing imperfect detection improve species distribution models? *Ecography* 34:659-670.
- Rota, C.T.**, R.J. Fletcher, R.M. Dorazio, and M.G. Betts. 2009. Occupancy estimation and the closure assumption. *Journal of Applied Ecology* 46:1173-1181.

## BOOK CHAPTERS

**Rota, C.T.**, J.J. Millspaugh, T.W. Bonnot, R.A. Montgomery, J.L. Belant, C.R. Ayers, R.A. Gitzen, D.A. Eads, D.C. Kesler, and C. Bodinof. *In press*. Analysis of resource selection: web exercises. Pages xx-xx *in* D. Murray and G. Chapron, editors. Population ecology in practice: underused, misused, and abused methods. Cambridge University Press, New York.

Millspaugh, J.J., **C.T. Rota**, T.W. Bonnot, R.A. Montgomery, J.L. Belant, C.R. Ayers, R.A. Gitzen, D.A. Eads, D.C. Kesler, and C. Bodinof. *In press*. Analysis of resource selection. Pages xx-xx *in* D. Murray and G. Chapron, editors. Population ecology in practice: underused, misused, and abused methods. Cambridge University Press, New York.

Millspaugh, J.J., D.C. Kesler, R.W. Kays, R.A. Gitzen, J.H. Schulz, **C.T. Rota**, C.M. Bodinof, J.L. Belant, and B.J. Keller. 2012. Wildlife radiotelemetry and remote monitoring. Pages 258-283 *in* N. Silvy, editor. Wildlife Techniques Manual. John Hopkins University Press, Baltimore.

Millspaugh, J.J., R.A. Gitzen, J.L. Belant, R.W. Kays, B.J. Keller, D.C. Kesler, **C.T. Rota**, J.H. Schulz, and C.M. Bodinof. 2012. Analysis of radiotelemetry data. Pages 480-501 *in* N. Silvy, editor. Wildlife Techniques Manual. John Hopkins University Press, Baltimore.

Fletcher Jr., R.J., J.S. Young, R.L. Hutto, A. Noson, and **C.T. Rota**. 2011. Insights from ecological theory on temporal dynamics and species distribution modeling. Pages 91-107 *in* C.A. Drew, Y.F. Wiersma, and F. Huettmann, editors. Predictive Species and Habitat Modeling in Landscape Ecology: Concepts and Applications. Springer, New York.

Millspaugh, J.J., D.C. Kesler, R.W. Kays, R.A. Gitzen, J.H. Schulz, J.L. Belant, **C.T. Rota**, B.J. Keller, and C.M. Bodinof. 2010. Wildlife radio-tracking and remote monitoring. Pages 20-30 *in* K. Sivakumar and B. Babib, editors. Telemetry in Wildlife Science, ENVIS Bulletin: Wildlife & Protected Areas Vol. 13 No. 1. Wildlife Institute of India, Dehradun, India.

## MEDIA AND POPULAR LITERATURE

Goldman, J.B. 2016. Wildlife can bear with hunters and hikers. Scientific American <<https://www.scientificamerican.com/podcast/episode/wildlife-can-bear-with-hunters-and-hikers/>> Accessed December 22, 2016.

*A podcast reviewing Kays et al. 2017, Journal of Applied Ecology*

Rota, C.T. 2011. Solar energy and a diversified energy future. Missouri Wildlife 72:5-6.

## EXTERNAL GRANTS & CONTRACTS

- University of Missouri and Missouri Department of Conservation** 2017  
*Title:* White-tailed Deer Survival, Recruitment, and Movement Patterns in Missouri.  
*Role:* Principle Investigator  
*Amount:* \$30,875
- University of Missouri and Mule Deer Foundation** 2017  
*Title:* Effects of Oil and Gas Development on Mule Deer in North Dakota  
*Role:* Principle Investigator  
*Amount:* \$9,689
- National Wild Turkey Federation** 2017  
*Title:* Survival and Reproduction of Eastern Wild Turkeys in Northeastern South Dakota  
*Role:* Principle Investigator  
*Amount:* \$16,000
- South Dakota Department of Game, Fish and Parks** 2016  
*Title:* Survival and Reproduction of Eastern Wild Turkeys in Northeastern South Dakota  
*Role:* Principle Investigator  
*Amount:* \$154,376
- Natural Resources Conservation Service** 2016  
*Title:* Evaluating Wetland Functions and Ecosystem Services in West Virginia Wetlands  
*Role:* Co-Principle Investigator  
*Amount:* \$127,830
- US Fish & Wildlife Service Wildlife Restoration Program and Missouri Department of Conservation** 2015  
*Title:* Population Demographics of a Restored Elk Population  
*Role:* Co-Principle Investigator  
*Amount:* \$1,500,000
- Bureau of Land Management, North Dakota Game & Fish, Oil & Gas Research Program in North Dakota, and Mule Deer Foundation** 2012  
*Title:* Effects of Oil and Gas Development on Mule Deer Populations in Western North Dakota  
*Role:* Co-Principle Investigator  
*Amount:* \$750,000

**South Dakota Game, Fish, & Parks Wildlife Diversity Small Grants Program** 2012

*Title:* The importance of prescribed fire in creating habitat for Black-backed Woodpeckers in the Black Hills, South Dakota

*Role:* Principle Investigator

*Amount:* \$5,000

**MISCELLANEOUS AWARDS**

**Dr. David E. Samuel Faculty Excellence Award** 2017

*Title:* Conference Travel for 12th International Mammalogical Congress in Perth, Australia

*Amount:* \$3,000

**West Virginia University Libraries** 2016

*Title:* Open access author fund

*Amount:* \$500

**GRADUATE ADVISING**

**MS Students**

- *Gordon Dimmig*. Thesis: Canada Warbler (*Cardellina canadensis*) environmental correlates and avian temporal dynamics on an elevational gradient in the central Appalachian Mountains.
- *Katharine Lewis* (co-advised with Dr. James Anderson). Thesis: Evaluating Wetland Functions and Ecosystem Services in West Virginia Wetlands.
- *Brett Skelly*. Thesis: Effects of Oil and Gas Development on Mule Deer Populations in Western North Dakota.
- *Reina Tyl*. Thesis: Survival and Reproduction of Eastern Wild Turkeys in Northeastern South Dakota.

**Committee Service**

- *Laura Graham*, MS Student (Dr. Christopher Lituma, advisor)
- *Eric Margenau*, PhD Student (Dr. Petra Wood, advisor)
- *Kyle Price*, PhD Student (Dr. John Edwards, advisor)
- *Sara Yanuzzi*, MS Student (Dr. James Anderson, advisor)

## TEACHING

### Instructor

- Wildlife and Fisheries Techniques (WMAN 300) Fall Semesters, 2016 – Present  
West Virginia University, Morgantown, WV 3 Credits
- Quantitative Ecology (WMAN 633) Spring 2017  
West Virginia University, Morgantown, WV 3 Credits
- Advanced Wildlife and Fisheries Management (WMAN 450) Spring 2017  
(66% responsibility) 4 Credits  
West Virginia University, Morgantown, WV
- Advanced Wildlife and Fisheries Management (WMAN 450) Spring 2016  
(33% responsibility) 4 Credits  
West Virginia University, Morgantown, WV
- Population Dynamics and Management (FW 4500/7500) Spring 2014  
The University of Missouri, Columbia, MO 3 Credits

### Guest Lecturer

- Introduction to Bayesian Modeling (WILD 7970) Spring 2015  
Auburn University, Auburn, AL

### Teaching Assistant

- Population Dynamics and Management (FW 4500/7500) Spring 2012  
The University of Missouri, Columbia, MO
- Ornithology Lab (BIOL 2600) Spring 2011  
The University of Missouri, Columbia, MO
- Wildlife of Florida Lab (WIS 3402L) Spring 2009  
The University of Florida, Gainesville, FL
- Wildlife Techniques (WIS 4645C) Spring 2009  
The University of Florida, Gainesville, FL

### Student Tutor

- Algebra and Pre-calculus 2005-2006  
The University of Montana, Missoula, MT

## INVITED PRESENTATIONS, SEMINARS, AND WORKSHOPS

† indicates presenting author if somebody other than C.T. Rota

**Rota, C.T.** 2017. Data analysis: occupancy and co-occurrence in program R. Workshop: The Design, Logistics and Data Use of Large Camera-Trapping Projects. 12<sup>th</sup> International Mammalogical Congress, Perth, WA, Australia.

- Rota, C.T.** 2016. Recent advances in modeling spatial and interspecific dependence with detection / non-detection data. Department of Environmental and Forest Biology Adaptive Peaks Seminar Series. State University of New York College of Environmental Science and Forestry, Syracuse, NY.
- Rota, C.T.** 2016. Recent Advances In Modeling Interspecific Interactions With Detection / Non-detection Data. Symposium: Studying species interactions from camera-trap data - analyzing the space time continuum. The Wildlife Society 23<sup>rd</sup> Annual Conference, Raleigh, NC.
- Rota, C.T.**, J.H. Schulz<sup>†</sup>, J.J. Millspaugh, R.A. Reitz, K.D. Richkus, B. Harvey, S.L. Oldenburger, M.J. Rabe. 2016. National and state-scale attitudes and opinions of mourning dove hunters about lead (Pb) poisoning. Copper Round Table Working Group. Big Lake, MN.
- Rumble, M.<sup>†</sup>, J. Millspaugh, S. Mohren, K. Vierling, T. Bonnot, J. Pierson, M. Schwartz, **C. Rota**, and E. Matsuer. 2015. Status of knowledge: Black-backed woodpeckers in the Black Hills. National Forest Advisory Board. Rapid City, SD.
- Rota, C.T.** 2015. The context of forest disturbance matters: differential response of Black-backed Woodpeckers to fire and mountain pine beetle infestations in the Black Hills, South Dakota. School of Forestry and Wildlife Sciences Seminar Series. Auburn University, Auburn, AL.
- Rota, C.T.** 2014. Generalizing occupancy models to account for space and interacting species. Forestry / Fisheries and Wildlife Joint Seminar Series. The University of Missouri, Columbia, MO.
- Rota, C.T.**, J.J. Millspaugh, M.A. Rumble, C.P. Lehman, and D.C. Kesler. 2014. Not all habitats are disturbed equally: Black-backed Woodpecker population dynamics in burned forests and mountain pine beetle infestations. Large Wildland Fires: Social, Political & Ecological Effects. The University of Montana, Missoula, MT.
- Rota, C.T.**, and J.J. Millspaugh. 2014. Tutorial: Resource selection functions. Symposium on Animal Movements and the Environment. North Carolina Museum of Natural Sciences, Raleigh, NC.
- Rota, C.T.**, D.C. Kesler, M.A. Rumble, C.P. Lehman, and J.J. Millspaugh. 2012. Black-backed woodpecker home range size and resource selection in habitat created by mountain pine beetle infestations in the Black Hills of South Dakota. Vertebrate Response to Bark Beetles. The University of Wyoming, Laramie, WY.



## CONTRIBUTED ORAL PRESENTATIONS

\* indicates student

† indicates presenting author if somebody other than C.T. Rota

Lewis, K.\*†, **C.T. Rota**, and J. Anderson. 2017. Wintering Avian Occupancy on West Virginia Agricultural Conservation Easement Program Wetlands. The Wildlife Society 24<sup>th</sup> Annual Conference, Albuquerque, NM.

Anderson, J.†, **C.T. Rota**, S.M. Landry\*, S. Cua\*, and H.L. Clipp\*. 2016. Hunters and trappers as citizen-scientists. XVI Nordic Congress of Wildlife Research, Rovaniemi, Finland.

**Rota, C.T.**, A.J. Wolf †, R.B. Renken, R.G. Jensen, R.A. Gitzen, R.A. Montgomery, and J.J. Millspaugh. 2016. Long-term impacts of three forest management practices on herpetofauna in the Missouri Ozarks. Central Hardwoods Forest Conference, Columbia, MO, USA.

Wolf, A.†, **C.T. Rota**, R.B. Renken, R.G. Jensen, R.A. Gitzen, and J.J. Millspaugh. 2016. Response of Ozark herpetofauna to different forest management practices over two decades. Missouri Natural Resources Conference, Osage Beach, MO.

**Rota, C.T.**, J.H. Schulz†, J.J. Millspaugh, R.A. Reitz, K.D. Richkus, B. Harvey, S.L. Oldenburger, M.J. Rabe. 2016. National and state-scale attitudes and opinions of mourning dove hunters about lead (Pb) poisoning. The 76<sup>th</sup> Midwest Fish & Wildlife Conference.

**Rota, C.T.**, C.K. Wikle, R.W. Kays, T. Forrester, A. Parsons, W.J. McShea, and J.J. Millspaugh. 2015. A two-species spatial occupancy model accommodating simultaneous spatial and interspecific dependence. The 2015 Ecological Society of America Annual Meeting.

**Rota, C.T.**, E. Kalies, W. McShea, T. Forrester, R. Kays, M. Ferreira, and J.J. Millspaugh. 2014. Modeling multi-species occupancy probabilities with zero-inflated multivariate Bernoulli models: Generalizing occupancy models to  $\geq 3$  species. The Wildlife Society 21<sup>st</sup> Annual Conference.

Fremgen, A.L.\*†, **C.T. Rota**, C. Hansen, M. Rumble, and J.J. Millspaugh. 2014. Use of multi-state mark-recapture models to assess male greater sage-grouse movements between leks. The Wildlife Society 21<sup>st</sup> Annual Conference.

Fremgen, A.L.\*†, **C.T. Rota**, C. Hansen, M. Rumble, and J.J. Millspaugh. 2014. Use of multi-state mark-recapture models to assess male greater sage-grouse movements between leks. The Wildlife Society Central Mountain and Plains Section Annual Meeting.

- Rota, C.T.**, J.J. Millspaugh, M.A. Rumble, C.P. Lehman, and D.C. Kesler. 2013. The role of wildfire, prescribed fire, and mountain pine beetle infestations on the population dynamics of Black-backed Woodpeckers. The Wildlife Society 20<sup>th</sup> Annual Conference.
- Rota, C.T.**, J.J. Millspaugh, M.A. Rumble, C.P. Lehman, and D.C. Kesler. 2013. Not all habitats are disturbed equally: Black-backed Woodpecker population dynamics in burned forests and mountain pine beetle infestations. 131<sup>st</sup> Stated Meeting of the American Ornithologists' Union.
- Rota, C.T.** and J.J. Millspaugh. 2013. A Bayesian kernel density estimator for evaluating animal home range. Ecological Society of America 98<sup>th</sup> Annual Meeting. Available from Faculty of 1000 <http://f1000research.com/slides/1094274>.
- Rota, C.T.**, J.J. Millspaugh, D.C. Kesler, C.P. Lehman, M.A. Rumble, and C.M. Bodinof. 2012. A Bayesian modified case-control model for estimating absolute probability of use from use-availability data. Ecological society of America 97<sup>th</sup> Annual Meeting.
- Rota, C.T.**, D.C. Kesler, M.A. Rumble, C.P. Lehman, and J.J. Millspaugh. 2011. Do mountain pine beetle infestations provide similar foraging resources for Black-backed Woodpeckers as recently burned forests? 72<sup>nd</sup> Midwest Fish & Wildlife Conference.
- Rota, C.T.**, D.C. Kesler, M.A. Rumble, C.P. Lehman, and J.J. Millspaugh. 2011. Foraging behavior of Black-backed Woodpeckers in burned forests and mountain pine beetle infestations. 129<sup>th</sup> Stated Meeting of the American Ornithologists' Union.
- Rota, C.T.**, R.J. Fletcher Jr., J.M. Evans, and R.L. Hutto. 2010. Does addressing imperfect detection improve predictive performance of species distribution models? Ecological Society of America 95<sup>th</sup> Annual Meeting. Available from Nature Precedings <http://dx.doi.org/10.1038/npre.2010.5201.1>.
- Rota, C.T.**, R.J. Fletcher Jr., and R. Dorazio. 2008. Estimating bird detectability from single visit point count surveys. The Wildlife Society 15<sup>th</sup> Annual Conference.
- Rota, C.T.**, R.J. Fletcher Jr., and R. Dorazio. 2008. Occupancy estimation from single visit surveys. 126<sup>th</sup> Stated Meeting of the American Ornithologists' Union / Cooper Ornithological Society / Society of Canadian Ornithologists.

## CONTRIBUTED POSTER PRESENTATIONS

\* indicates student

† indicates presenting author if somebody other than C.T. Rota

Skelly, B.P.\*†, **C.T. Rota**, J.J. Millspaugh, and J.W. Edwards. 2017. Potential effects of gas and oil development on mule deer survival. The Wildlife Society 24<sup>th</sup> Annual Conference, Albuquerque, NM.

Stollings, L.\*†, H. Warner\*, D.M. Wood\*, and **C.T. Rota**. 2017. Survey and analyses of current uses and needs of West Virginia natural resources police officers. The Wildlife Society 24<sup>th</sup> Annual Conference, Albuquerque, NM.

Tyl, R.\*†, **C.T. Rota**, and C.P. Lehman. 2017. Survival and reproduction of eastern wild turkeys in northeastern South Dakota. The Wildlife Society 24<sup>th</sup> Annual Conference, Albuquerque, NM.

Matejczyk, E.\*†, C.M. Lituma, and **C.T. Rota**. 2017. Forest management influence on Cerulean Warbler populations in West Virginia. West Virginia University Summer Undergraduate Research Experience Poster Symposium.

Crawford, T.\*†, G. Dimmig\*, and **C.T. Rota**. 2017. The future of birds in the Appalachian Mountains. West Virginia University Summer Undergraduate Research Experience Poster Symposium.

Lewis, K.\*†, **C.T. Rota**, and J. Anderson. 2017. Wintering Avian Occupancy and Richness in West Virginia Agricultural Conservation Easement Program Wetlands. Northeast Association of Fish and Wildlife Agencies Annual Conference.

Lewis, K.\*†, **C.T. Rota**, and J. Anderson. 2017. Avian Occupancy and Richness in West Virginia Agricultural Conservation Easement Wetlands. West Virginia Chapter of the Wildlife Society Spring 2017 Meeting.

## SERVICE AND ACTIVITIES

**Reviewer** for *Methods in Ecology and Evolution*; *Ecology*; *Ecography*; *Journal of Applied Ecology*; *Conservation Biology*; *Biological Conservation*; *PLoS ONE*; *Oecologia*; *Forest Ecology and Management*; *Journal of Mammalogy*; *Restoration Ecology*; *Ibis*; *Journal of Wildlife Management*; *European Journal of Wildlife Research*; *Condor*, *Ornithological Applications*; *Wildlife Society Bulletin*; *Avian Conservation and Ecology*; *The Prairie Naturalist*; *Journal of Arid Land*

<b>Faculty Support Committee Member</b> Davis College of Agriculture, Natural Resources, and Design	2017 – Present
<b>Secretary</b> The Wildlife Society Biometrics Working Group	2016 – Present
<b>Faculty Advisor</b> The Wildlife Society, West Virginia Student Chapter	2016 – Present
<b>Teaching Lab Coordinator</b> West Virginia University Wildlife & Fisheries Resources Program	2016 – Present
<b>Faculty Search Committee Member</b> West Virginia University Wildlife & Fisheries Resources Program	2016
<b>President</b> University of Missouri Fisheries & Wildlife Graduate Student Organization	2010 – 2012
<b>Organizer</b> University of Florida Southeastern Ecology and Evolution Conference	2009
<b>Coordinator</b> University of Florida, Eco think-tank graduate student lunches	2008 – 2009

### **PROFESSIONAL DEVELOPMENT**

WVU Teaching and Learning Commons Peer Support Program	2016 – 2017
Write Winning Grant Proposals Seminar	2016
West Virginia Great Teachers Seminar	2016
WVU Teaching and Learning Commons First Friday Seminar Series	2016
University of Missouri Celebration of Teaching	2013 & 2015
Preparing Future Faculty	August 2014 – May 2015
Practical Training in the use of GIS for Natural Resource Applications	2008

### **GRADUATE AND POSTDOCTORAL AWARDS**

<b>Travel Grant</b> University of Missouri Postdoctoral Association	2014
<b>Outstanding Graduate Student</b> University of Missouri Graduate Student Association	2013
<b>Outstanding Graduate Student</b> University of Missouri Fisheries & Wildlife Graduate Student Organization	2013
<b>Student Travel Scholarship</b> University of Missouri Graduate Professional Council	2012

<b>TransWorld Airlines Scholarship</b>	2012
The University of Missouri	
<b>Judy Southern Fellowship</b>	2012
University of Missouri Department of Fisheries & Wildlife Science	
<b>James D. Chambers Memorial Scholarship</b>	2012
Missouri Chapter of the Wildlife Society	
<b>Student Travel Grant</b>	2011
University of Missouri Organization Resource Group	
<b>Graduate Fellowship Award</b>	2011
Missouri Chapter of the Wildlife Society	
<b>Student Travel Grant</b>	2010
University of Missouri Organization Resource Group	
<b>Student Travel Grant</b>	2008
The Wildlife Society	
<b>Student Travel Grant</b>	2008
University of Florida Wildlife Graduate Student Association	
<b>Student Travel Grant</b>	2008
University of Florida Graduate Student Council	

#### **GRADUATE AND UNDERGRADUATE FIELD RESEARCH EXPERIENCE**

<b>Graduate Research Assistant</b>	2009 – 2011
University of Missouri / U.S. Forest Service	
<b>Graduate Research Assistant</b>	2007 – 2008
University of Florida / University of Montana Avian Science Center	
<b>Warbler Research Technician</b>	2007
Smithsonian Institute	
<b>Bird Song Research Assistant</b>	2006 – 2007
University of Montana Avian Science Center	
<b>Invasive Plant Research Technician</b>	2006
University of Montana College of Forestry and Conservation	
<b>Bat Research Technician</b>	2005
University of Montana Cooperative Wildlife Research Unit	