

# Wednesday Poster Session 7:00–9:00 PM Turquoise Ballroom

\* indicates student presenters eligible for AOS presentation award

**1.001 Schuetz JG, Auer T**

Visualizing Bird Distributions Across the Annual Cycle: New Opportunities and Strategies

**1.002 Skinner AA, Wright J, Matthews SN, Tonra CM**

Using GPS-Tracking To Fill Knowledge Gaps in the Full Annual Cycle of an Elusive Aerial Insectivore in Steep Decline

**1.003 \*Scribner SE, Neudorf DL**

The Effects of Urbanization On Alarm Call Variation of Carolina Wrens (*Thryothorus ludovicianus*) and Heterospecific Response

**1.004 Heuermann TM, Curry RL**

Inter- and Intra-specific Variance in Boldness Behavior of Hybridizing Black-capped and Carolina Chickadees

**1.005 Blanche AJ, Chenard K, Duckworth RA**

Social Context Influences the Expression of Aggression in Zebra Finches

**1.006 Chenard KC, Duckworth R**

Structural Perspectives On the Evolution of Personality

**1.007 Finlayson DK, Larsen RT, Knight RN, Phillips SE, Slater SJ**

Golden Eagle Use of Water Features in the West Desert of Utah

**1.008 Smith DJ, Bates M, Sokol L, Kutalu T, Ewing E, Grooms J, Espino A, Espino A, Kreizel KN, Heinisch S, Grandgenett N, Gillespie LM**

'Smart' Nest Boxes: Expediently and Remotely Collecting Avian Data Utilizing Unique Advantages Within Community Colleges

**1.009 Ewing EV, Kreizel KN, Espino A, Grooms J, Hurley A, Gillespie LM**

Habitat Features and Similarity in Nest Defense Behavior in Mated Pairs of Eastern Bluebirds

**1.010 Oropesa LO, Ewing E, Gonzalez L, Kreizel KN, Espino A, Gillespie LM**

Possible Hybrid Barn X Cliff Swallows and How Colonial Vs Solitary Nesting Behavior May Be Related To Plumage Anomalies

**1.011 \*Mady RP, Bonter DN**

The Effect of Supplemental Food Availability On Avian Space Use

**1.012 Varra DM, Redmond LJ, Eroh CS, Haq JI**

The Effect of Predator Threat To Adults On Variation in Gray Catbird Nest Defense

**1.013 Reed AN, McRae SB**

Settling Differences: Factors Affecting Nest Size Variation in the Eastern Bluebird

**1.014 Shah SS, Rubenstein DR**

Sex-based Difference in Direct Benefits Gained By Immigrants in a Cooperative Breeding Bird With Low Group Relatedness

**1.015 Trombley ML, Brazell KA, Lindsay AR**

Avian Feeding Behavior in Response To Alpha-pinene Olfactory Cues

**1.016 \*Zusi LM, Kloepper L**

The Behavior of Swainson's Hawks (*Buteo swainsoni*) During Predation of Brazilian Free-tailed Bats (*Tadarida brasiliensis*) in Flight

**1.017 \*Rego MA, Del-Rio GC, Brumfield RT**

The Role of Geographical Barriers in Shaping Amazonian Bird Distributions

**1.018 Musher LJ, Ferreira M, Auerbach AL, McKay J, Cracraft J**

Why Is Amazonia a 'source' of Biodiversity? Climate-mediated Dispersal and Synchronous Speciation Across the Andes in an Avian Group (Tityrinae)

**1.019 Lepczyk CA, Klingbeil BT, La Sorte FA, Fink D, Flather CH**

Geographic Associations With Anthropogenic Noise Pollution for North American Breeding Birds

**1.020 \*Mayette-Draper EM, Ralston J**

The Role of Climate Change in the Northward Range Expansion of Red-bellied Woodpecker (*Melanerpes carolinus*)

1.021 **\*Ramírez-Barrera SM, Velasco JA, Orozco-Téllez TM, Vázquez-López AM, Hernández-Baños BE**

What Drives Genetic and Phenotypic Divergence in the Red-crowned Ant-tanager (*Habia Rubica*, Aves: Cardinalidae)

1.022 **Zhao M, Chang Y, Kimball RT, Zhao J, Lei F, Qu Y**

Pleistocene Glaciation Explains the Disjunct Distribution of the Chestnut-vented Nuthatch (Aves, Sittidae)

1.023 **\*Conroy E, Nemeth N, Ralston J**

Extra-Pair Parentage in Field Sparrows (*Spizella Pusilla*)

1.024 **\*Reel JJ, Underwood TJ**

Behavioral Responses of an Eastern Population of Red-winged Blackbirds To Experimental Brown-headed Cowbird Parasitism

1.025 **\*Bumelis KH, Cadman MD, Mitchell GW, Hobson KA**

Niche Segregation Among Three Sympatric Species of Swallows in Southern Ontario

1.026 **Johnson TN, DeBano S, Young A, Kennedy PL**

Grazing-induced Trophic Relationships and Implications for Grassland Songbirds

1.027 **Rowley MG, Eldredge C, Dula M, Curry RL**

Impact of Irruptive Black-capped Chickadees On Social Structure of Resident Carolina Chickadees

1.028 **Young RC, Sirman A, Vangorder-Braid J, Kittilson J, Ghimire A, Westneat DF, Heidinger BJ**

Intergenerational Stress in Parents and Nestling and Telomere Lengths in House Sparrows

1.029 **Bauernfeind SM, Wiley DL, Williamson JL, Fischer SE, Streby HM, Witt CC, Barrow LN**

Haemosporidians in Vireos: Insights On Coevolution From a Comparison of Elevational-replacement Species

1.030 **McArthur JW, Collins MD**

Prevalence and Diversity of Avian Malaria Parasites in a Raptor Community

1.031 **Gerik DE, Van Hemert C, Zylberberg M, Handel CM, DeRisi JL**

Investigating Poecivirus As a Cause of Global Beak Deformities

1.032 **\*Gutierrez-Ramos NA, Acevedo MA**

Consequences of Infection By Avian Malaria Parasites in the Urban Forests of Puerto Rico

1.033 **Krajcir KJ, Matthews AE, Worm AJ, Boves TJ**

What Factors Are Related To Feather Mite Abundance Within, and Among, Species of Parulid Warblers?

1.034 **\*Maywald SL, Corbin CE, Williams LM, Hrantiz JM, Henry KW**

Potential Environmental Predictors, Blood Meal Analysis, and Larvae Presence of an Important West Nile Virus Vector (*Culex Restuans*) in Ruffed Grouse Habitat

1.035 **Pacheco MA, Cepeda AS, Bernotien R, Matta NE, Valkinas G, Escalante AA**

New Primers for PCR Detection and Differential DNA Amplification of Avian Haemosporidian Parasites Belonging To Different Genera

1.036 **\*Paget CJ, Sharp JS, Lindsay AR**

Rapid Detection of Avian Blood Parasites and West Nile Virus in the Common Loon Utilizing Loop-Mediated Isothermal Amplification

1.037 **Winchell CS, Doherty, Jr PF**

Habitat Selection Parameters for the Coastal California Gnatcatcher: Finding the Sweet Spot

1.038 **Martinez V, Grace JK**

Living On Edge: Interactions Between Stress Hormones and Blood Parasites in Birds Along Elevation Gradients

1.039 **Siller SJ**

Methylation in the GR Promoter in the Brain and Blood of the European Starling

1.040 **Morrison ES, Badyaev AV**

Is Ecological Specialization Reflected in Metabolic Network Complexity? A Test With 250 Bird Species

1.041 **Spaulding FR, McLaughlin JF, McCracken KG, Glenn TC, Faircloth BC, Winker K**

Population Genomics Infer Different Modes of Speciation With Gene Flow in the Green-winged Teal Complex

1.042 **Takano OM, Steadman DW**

Raptor Evolution in North America Since the Pleistocene

1.043 **Wait DR, Cicero C, Malik A, Bowie RC**

Geographic Variation and Speciation in *Pipilo Maculatus*

**1.044 Weeks BC, Winger BM**

The Relationship Between Morphological Change Across Ecological and Macroevolutionary Timescales in Migratory Birds

**1.045 Winker KS**

Heteropatric Speciation in Birds

**1.046 Corbin CE**

Comparative Morphospace Filling in Three Passerine Flycatcher Clades

**1.047 Fernando SW, De Silva TN, McCormack J, Peterson AT**

Climatic Niche Reconstructions Give New Insights To the Evolution of the New World Jays

**1.048 Muñoz P, Sandoval L**

Social Mimicry Hypotheses in Mixed-species Bird Flocks Tested in Costa Ricas Highland Bird Community

**1.049 Shahrokhi GG, Patten M**

Evolution and Taxonomy Study of Herons in East Africa

**1.050 Sonsthagen SA, Wilson RE, Cornman RS, Talbot SL**

Adaptation To the Arctic: Community Genomics of Alaskan Galliforms

**1.051 Ghimire AA, Vangorder-Braid JT, Sirman AE, Young RC, Westneat D, Heidinger BJ**

Body Size and Telomere Dynamics in House Sparrows

**1.052 Heidinger BJ, Young RC, Kucera AC, Kittilson JD, Westneat DF**

The Long and Short of It: Are Telomeres Related To Lifetime Reproductive Success in Free-living House Sparrows?

**1.053 \*Kane MS, Rowley M, Yancy B, Antalffy J, Omland K**

Predation of the Bahama Oriole (*Icterus Northropi*) By Rats (*Rattus Rattus*) On Andros

**1.054 Vickers SH, Franco AM, Michel NL**

Dispersal On the Non-breeding Grounds: a Neglected Process At the Heart of Range Dynamics in Migratory Birds

**1.055 \*Guggenheimer AA, Grace JK**

Correlating Body Condition and Habitat Management of Wintering Duck Populations in Texas Wetlands

**1.056 Schabert VT, Roberts KA, Contina A, Covino KM**

What Can a Feather Tell Us? A Study of Hydrogen Isotopes and the Migratory Patterns of Common Yellowthroats (*Geothlypis Trichas*)

**1.057 \*de Zwaan DR, Wilson S, Gow EA, Martin K**

Sex-specific Variation and Flexibility in Migration Behavior for Alpine Horned Larks

**1.058 Fish AC, Blomberg EJ, Roth AM**

Migratory Ecology of American Woodcock (*Scolopax Minor*) in Eastern North America

**1.059 \*Larson LM, Ralston J**

Determining the Variation of Clock Allele Lengths Across Eleven Migratory and Resident Species

**1.060 Pagano SS, Cavanaugh N, Hudson AO, Border M**

Exploring the Physiological Condition of Migratory Songbirds Near Lake Ontario: New Insights From the Gut Microbiota

**1.061 Smith RJ, Hatch MI**

Temperature and Precipitation Experienced Prior To Capture in Northeastern Pennsylvania Is Associated With Timing and Body Condition of Gray Catbirds and Common Yellowthroats During Fall Migration

**1.062 \*Stoner DJ, Underwood T**

Tree Foraging Preferences of Warblers During Fall Migration Along the Sacony Creek Trail

**1.063 Watson JL, Paprocki N, Oleyar D, Booms T**

Spring 2016-2018 Migration Counts At North America's Northernmost Raptor Migration Site: Gunsight Mountain, Alaska

**1.064 West AC, Swanson D**

Stopover Biology of Grassland Birds At a Restored Tallgrass Prairie

**1.065 Pajot LM, Handel CM, Sonsthagen SA, Van Hemert C**

Is Geographical Prevalence of Beak Deformities Related To Patterns of Genetic Diversity in Northwestern Crows in Alaska?

**1.066 Mack AL, Jones J**

Exploration of the Structure and Function of the Casque in Cassowaries

**1.067 Nakao T, Ogihara N, Yamasaki T, Shimada M**

Okinawa Rail Has Relatively Larger Wulst in the Brain: Relationship Between Anvil-using Behavior and Brain Morphology

- 1.068 **Conkin JA, Bidwell MT**  
Space Use By Breeding and Non-breeding Whooping  
Cranes During the Breeding Season
- 1.069 **Pruitt ML, Smith KG**  
Winter Occurrence and Roosting Behavior of Northern  
Saw-whet Owl in Northwestern Arkansas (USA)
- 1.070 **Harrod WD, Mumme RL**  
Effect of Male Desertion On Provisioning, Growth,  
and Survival of Hooded Warbler Nestlings
- 1.071 **Ridlon AM, Woodman CJ**  
Technology and Student Outcomes When Integrating  
Undergraduate Researchers in Egg Logger Develop-  
ment
- 1.072 **Taylor LU, Mauck RA**  
Coordination, Conflict, and Neglect in Biparental  
Storm-petrel Incubation
- 1.073 **Chesser RT, James HF, Bretagnolle V, Es-  
tandia A, Levy MA, Welch AJ**  
Toward a Complete Phylogeny of the Procellariiformes
- 1.074 **Sprengelmeyer QD, Gurung A, DaCosta JC,  
Sorenson MD, Lindsay AR**  
Phylogenetic Relationships of Loon Species Based On  
DdRAD-seq Data
- 1.075 **Meeks GW, Anderson CM, Bell DA, Dixon  
A, Maechtle T, Nakajima K, Kumazawa Y, Novak  
BJ, Talbot S, White C, Zhan X, Department of  
Biological Sciences, University of North Texas,  
Denton, TX, USA AJ**  
Peregrine Falcon Subspecies Phylogenomics Using  
Whole-Genome Re-Sequencing
- 1.076 **Mosack DA, Maley JM, Tsai WL, McCor-  
mack JE**  
Genomic and Phenotypic Variation in Russet  
Nightingale-Thrushes
- 1.077 **Wadleigh RL, Ribas CC, Knowles LL**  
Evaluating the Effectiveness of Dispersal Barriers in  
the Negro River Basin for White Sand Associated  
Passerines
- 1.078 **\*Carpenter AM, Spellman GM, Klicka J,  
Burg TM**  
Molecular Differences of Warbling Vireos (*Vireo  
gilvus*) Across a Contact Zone
- 1.079 **Crawford CS, Eichholz MW**  
The Influence of Habitat Characteristics On Northern  
Bobwhite Population and Spatial Ecology in Southern  
Illinois
- 1.080 **Harms TM, Dinsmore SJ, Jones III OE**  
Estimating Age- and Sex-specific Annual Survival of  
Wood Ducks (*Aix sponsa*) in Iowa
- 1.081 **\*Oliver Brown CC, Carter BE**  
Testing for Population-level Morphological Variation  
in Museum Collections of Clark's Nutcrackers
- 1.082 **\*Rosenblatt CJ, Gates RJ, Matthews SN**  
Modeling Population Dynamics of the Northern Bob-  
white (*Colinus virginianus*) in Ohio
- 1.083 **Weiser EL, Thogmartin WE, Will TC**  
Demographic Models To Support the Endangered  
Species Act Listing Decision for Golden-winged  
Warblers
- 1.084 **Campbell KK, Winker KS**  
Additional Evidence Suggests Elevating Numerous  
Philippine Bird Subspecies To Species Status
- 1.085 **Gillette SL, Withrow JJ, Glenn TC, Faircloth  
BC, Winker K**  
Genomic Data Suggest East Asian Mew Gulls and  
North American Mew Gulls Belong To Separate  
Biological Species
- 1.086 **Halley MR**  
Graceanna Lewis (1821–1912) and the First Phyloge-  
netic Tree of Birds
- 1.091 **\*Tobin EJ, Duke-Sylvester SM**  
Demography and Infectious Disease Ecology of a  
Resident Passerine in Southern Louisiana
- 1.100 **Kellam JS**  
Woodpeckers Frequently Use Forest Habitat Damaged  
By Tornado for Foraging, but Not Nesting

# Thursday Poster Session 7:30–9:30 PM Turquoise Ballroom

\* indicates student presenters eligible for AOS presentation award

**2.001 \*Lindquist MC, Buckland EL, Carpenter JP, Danner DM**

Characterizing Movements of Saltmarsh and Seaside Sparrows On Wintering Grounds Using Radio Telemetry

**2.002 \*Clarke JR, Master TL**

The Northern Waterthrush: Analyzing the Distribution and Abundance of a Secretive Songbird in Pennsylvania

**2.003 Dorn RP, McArthur JW, Boyle SA, Collins MD**

Using GIS To Identify Sites for Installation of Barn Owl Nest Boxes

**2.004 Colón-Cruz MC, Pérez-Cruz IJ, Schaffner FC**

Post-Hurricane Assessment of Abundance and Diversity of Land Birds in Coastal Dry Forest At Jobos Bay

**2.005 Griffin KR**

An Inventory of Katmai National Park's Seabird Colonies

**2.006 Heglund PJ, Newman J, Stanton J**

Putting the Right Habitat, in the Right Places, At the Right Time: Integrated Waterbird Management and Monitoring

**2.007 \*Heintz EC, Tobin EJ, Duke-Sylvester SM**

Sex-Specific Demography of a Monomorphic Passerine in Southern Louisiana

**2.008 Hendrickson BJ, Eichholz MW**

Distribution, Abundance, and Habitat Selection of Breeding Mississippi Kites (*Ictinia mississippiensis*) in Southern Illinois

**2.009 Martinez J, Leberg P**

The Effects of Louisiana's Shifting Coastline and Island Characteristics On Seabird Colony Presence

**2.010 McCloy MW, Glasscock S, Barboza P, Grace JK**

Autonomous Recording Units As a Tool for Understanding Resilience in Avian Communities

**2.011 \*Merayo García J, Ruvalcaba Ortega I, Wunder M, Gonzalez Rojas JI, Guzmán Velasco A**  
Abundance and Occupancy of Mountain Plover in Northwestern Mexico

**2.012 Morrison LW, Peitz DG**

Bird Surveys in Small Geographical Areas: Biases and Tradeoffs

**2.013 Roper VG, Green L**

Using Tree Swallows To Evaluate the Effectiveness of Artificial Wetlands To Support Aerial Insectivores

**2.014 Ruhl PJ, Kellner KF, Dunning Jr JB**

Variables Explaining Early-Successional Habitat Associations of Six Mature-Forest Bird Species During the Breeding Season

**2.015 \*Donahue ER, Bryant LC, Wessels JL, Youtz JA, Raibley R, Worm AJ, Krajcir KJ, Chabot AA, Hobson KA, Boves TJ**

Survival and Non-breeding Habitat Selection of Loggerhead Shrikes in Agricultural Landscapes of Arkansas

**2.016 \*vitale NE, Brush J, Powell A**

Factors Limiting Reproductive Success of American Oystercatchers (*Haematopus palliatus*) in Florida's Big Bend

**2.017 Gibbons RE, Deichmann P**

Consistent Fall Nesting of Neotropical Cormorants (*Phalacrocorax brasilianus*) in Coastal Texas

**2.018 Kreizel KN, Ewing E, Gonzalez L, Espino A, Koch A, Gillespie LM**

Description of Possible Hybrid Barn X Cliff Swallows in East Central Nebraska Identified Via Anomalous Plumage Variation

**2.019 Gonnerman MB, Shea S, Kamath P, Sullivan K, Blomberg E**

Influences of Multi-Scale Habitat Quality and Female Behavior On Nest Success of Eastern Wild Turkeys

**2.020 Goodnow BE, Bulluck LP**

Regional Variation in the Relationship Between Breeding Phenology and the Onset of Spring

- 2.021 **Hoppe IR, Johnson AE**  
Nest Survival in a Cooperatively-breeding Bird: Do Helpers Mediate the Effects of Poor Environmental Conditions?
- 2.022 **Eroh CS, Redmond LJ, Varra DM**  
The Use of Trail Cameras To Identify Nest Predators of a Population of Gray Catbirds
- 2.023 **Thompson EN, Redmond LJ, Noble D, Haq JI, Fleming M, Patel V**  
Offspring Sex Ratio Bias in a Pennsylvania Population of Gray Catbirds
- 2.024 **Richardson RM, Matsuoka SM, Johnson JA, Romano MD, Taylor AR**  
Decadal Comparisons of the Nesting Ecology of McKay's Buntings Breeding On St. Matthew Island, Alaska
- 2.025 **Spence AR, Socolar JB, Stillman AN, Tingley MW**  
Population Response To Extreme Temperatures Across North American Bird Ranges
- 2.026 **Daigler LH, Grande F, Hanson S, Parol A, Campbell-Smith J**  
Birds Across Borders: Building an International Community of Ornithology
- 2.027 **Johnson AE, Welklin J**  
The Fairywren Project: Testing the Causes of Intraspecific Variation in Social Behavior and Signaling Traits Across an Ecological Gradient
- 2.028 **Taylor AR, Doherty S, Kristich P, Johnson B**  
Science Outside the Classroom: Birds 'n' Bogs Citizen Science Program As a Teacher/Scientist Partnership
- 2.029 **Saracco JF, Siegel RB, Helton L, Stock SL, DeSante DF**  
Phenology and Productivity in a Montane Bird Assemblage: Trends and Responses To Elevation and Climate Variation
- 2.030 **Smith DJ, Roe AJ, Winnicki SK, Williams EJ, Hope AG, Boyle WA**  
Consequences of Severe Drought On Grassland Songbird Reproduction
- 2.031 **Weiser EL**  
Population-level Effects of a Record-setting Spring Snowstorm Are Related To Diet and Migratory Strategy
- 2.032 **Harwood CM, Gates HR, Johnson JA, Lantot RB, Ruthrauff DR**  
Alaska Shorebird Conservation Plan, Version Iii
- 2.033 **Schunck Fu, Silveira LF, Nascimento VS**  
A New Priority Area for Endemic and Threatened Birds in the Atlantic Forest of Southeastern Brazil
- 2.034 **Schunck Fd**  
Shorebirds Use the Surroundings of the Largest Urban Area of South America
- 2.035 **Fantle-Lepczyk JE, Duffy D, Crampton L, Taylor A, Conant S**  
An Analysis of Translocation Regimes for the Endangered Puaiohi
- 2.036 **\*DeJong LN, Proppe D**  
Multispecies Song Playback Attracts Songbirds To Hardwood Forest Habitats Near and Far From Roads
- 2.037 **Gulson-Castillo ER, Winarni NL**  
Hornbill Conservation in Sulawesi, Indonesia
- 2.038 **Fischer PC, Brown J, Bush K, Lorenz T**  
Engaging Incarcerated People in Avian Research and Conservation: The Sustainability in Prisons Project (SPP)
- 2.039 **Pidgeon AM, Politi N, Martinez-Pastur G, Rivera L, Lizarraga L, Martinuzzi S, Radeloff VC**  
Incorporating Critical Bird Habitat and Climate Resilience in Argentina's Forest Use Plans
- 2.040 **Ramírez Alán OA, Colino Rabanal V, Segura Sequeira D, Retamosa Izaguirre M**  
Detection of Rain and Insects in Automatic Passive Recordings Using Random Forest Tree Classification
- 2.041 **Woodman CJ, Brightsmith DJ**  
Private-public Partnerships for Intensive Management Skill Building
- 2.042 **Yancy BM, McKoy CN, Antalffy JM, Omland KE**  
Nest Site Characteristics of the Bahama Oriole: Habitat Requirements for a Critically Endangered Species
- 2.043 **Dzielski SA, Twining CW, Cleckner LB, Razavi NR**  
The Risks and Benefits of an Emerging Aquatic Insect Diet: Methylmercury in Eastern Phoebe (Sayornis Phoebe) Chicks
- 2.044 **\*Wynia AL, Rolland V, Jimenez JE**  
A Novel Device To Best Detect Key Woodpeckers: an Experiment With the Magellanic Woodpecker
- 2.045 **\*Anparasan L/, Hobson KA**  
Tracing Nutrient Sources To Lipid Production in a Passerine Using Stable Isotope (13C, 2H) Tracers

- 2.046 **Buck EJ, Buehler DA**  
Acoustic Monitoring of American Woodcock (*Scolopax Minor*) in Tennessee
- 2.047 **Howell RG, Larsen RT, Petersen SL, Jensen RR**  
Using High-Resolution SUAS Imagery To Create 3D Models of Greater Sage-Grouse Habitat
- 2.048 **\*Perera A, Machin K, Soos C**  
NMR-based Metabolomics: a Novel Approach To Study Stress in Wild Birds
- 2.049 **\*Pokharel AN, DeLong JP**  
Prey Selection By Migratory Birds of Prey Using DNA Barcoding Technique
- 2.050 **Webb EA**  
Florivory As an Opportunistic but Essential Foraging Strategy for Avian Specialists
- 2.051 **Wunderle, Jr JM, Lebow PK, Rockwell SM, Powell A, Bearhop S, White JD, Currie D, Ewert DN, Marra PP**  
Adaptive Fat Regulation In The Mixed Arthropod-Fruit Diet Of A Neotropical-Nearctic Migrant On The Wintering Grounds
- 2.052 **\*Bennett BL, Burton ES, Driver RJ, Curry RL**  
Won't You Be My Neighbor? Distribution of Nesting Pairs Within a Hybrid-zone Chickadee Population
- 2.053 **\*Genier CS, Mitchell GW, Falconer M, Branfireun BA, Hobson KA**  
Dietary Costs and Benefits of Lakeshore Vs Aggregate Pit Breeding in Bank Swallows (*Riparia Riparia*)
- 2.054 **Shustack DP, Wait HL, Gonzalez J**  
Slate-colored Juncos (*Junco Hyemalis*) in Western Massachusetts
- 2.055 **\*Schunck Fd**  
The Shorebirds May Disappear From the Around of the Largest City in South America
- 2.056 **Schaefer RR, Rudolph DC, Williamson JH, Pierce JB, Shackelford CE**  
Habitat Characteristics of Henslow's Sparrow and LeConte's Sparrow Flush Points in a Small Blackland Prairie in Southeastern Texas
- 2.057 **\*Gura KB, Bedrosian B, Patla S, Chalfoun A**  
Great Gray Owl Home Range and Habitat Selection During the Breeding Season
- 2.058 **\*Hegg A, Dixon M, Swanson D**  
Invasive Plants and Bird Nesting Success in Missouri River Riparian Forests
- 2.059 **Roach MC, Thompson F**  
Relationships Between Eastern Whip-poor-will and Chuck-will's-widow Abundance and Landscape Composition and Management
- 2.060 **Vanausdall RA, Dinsmore SJ**  
Habitat Associations of Migrant Waterbirds Using Restored Shallow Lakes in Iowa
- 2.061 **Glass AJ, Eichholz MW**  
Grassland Community Responses To Habitat Structure and Management Actions
- 2.062 **Kosciuch KL, Howlin S, LeBeau C**  
A Meta-analysis of Effects of Wind Energy Development On Grouse Survival and Behavior
- 2.063 **Nefas SM, Dixon M, Swanson D**  
Early Cottonwood-willow Successional Forest Avian Diversity: What Do We Lose By Managing Sandbars for Plovers and Terns?
- 2.064 **Bergeron LM, Logan C**  
Modifications To the Bownet Trapping Method To Increase Safety and Efficiency for Medium-sized, Agile Birds
- 2.065 **\*Diaz-Mendez SN**  
Using Species Distribution Modeling To Estimate the Distribution of the West Indian Whistling Duck (*Dendrocyna Arborea*) in Puerto Rico
- 2.066 **Garlinger RD, Curry RL**  
RFID Technology: Does Tagging Method Matter for Survivorship of Backyard Birds?
- 2.067 **\*Weyenberg GS, Howells LO, Rumpungworn MD, Paxton KL, Crampton LH, Hart PJ**  
A Software Tool for Producing Annotations of Prolonged Audio Recordings Using Machine Learning and Deep Neural Networks
- 2.068 **Steen VA, Tingley M, Elphick C, Paton P, Clarkson C**  
Comparing Approaches for Modeling Bird Distributions From Imbalanced and Spatially-biased Data
- 2.069 **Ward DH, Stillman RA, River EM, Gilkerson W, Woods KA, Golicher JD, Nolet BA, Clausen P**  
Range Shifts, Environmental Change and Tipping Points: Predicting Impacts On Long-distance Migratory Herbivores

**2.070 Schunck Fd**

The People of the Largest City in South America Are Unaware of Their Shorebirds

**2.071 Pagano SS, Ross AD, Pagano T**

Integrating Biology and Chemistry in an Outdoor Ornithology Learning Environment

**2.072 Withrow JJ, Winker K**

Capitalizing On a Mass Mortality Event: Archiving Seabird Genetic Samples, Skins, and Skeletons From the M/V Selendang Ayu Oil Spill

**2.073 Garrison-Tovar PA, James J, Shepherd D, Bolus R**

Effects of Aviation Noise On Avian Communication Along a Noise Pollution Gradient

**2.074 Borgmann KL, Miller E**

The Macaulay Library: an Increasingly Powerful Resource for Research

**2.075 Brewer DE, Alcantara SG, Fudickar AM**

An Urban-rural Comparison of Song Repertoire Size and Song Characteristics of Song Sparrows

**2.076 \*Foli ES, Gill SA, Vohnhof MJ**

The Meaning of Song Structure: Exploring Behavioral Responses of Field Sparrows To Three Simple Song Types

**2.077 Gomez Murillo L, Kelly JP, Alfonso Cuta C, Pendred M, Tarwater C**

Role of Age and Competition in Territorial Aggression in a Tropical Understory Bird

**2.078 \*Sloof CM, Lovell SF, Lein MR**

Revisiting Cultural Evolution and Variation of Song in an Isolated Population of Mountain White-crowned Sparrows

**2.079 Heckscher CM, Mendez D, Aispuro AA, Kneidel AH, Mancuso ML**

Miniature GPS Data Loggers Reveal Three Behavioral Strategies and Confirm the Habitat Use of Non-migratory Veeries in South America

**2.080 \*Milbern LC, Matthews SN**

Breeding Songbird Habitat Utilization in Urban Riparian Forests

**2.081 Ferguson SM, Barr JI, Bateman PW**

Predictability of the Predator, Not Habituation To Humans, Drives Silver Gull Flight Initiation Distance

**2.082 Neudorf DL, Barragan GA**

Nesting Success of Carolina Wrens in an Urban and a Rural Ecosystem

**2.083 Beilke SJ, Saunders S, Rahlin A**

Marsh Bird Responses To Urbanization and Urban Wetland Habitat Availability At Multiple Spatial Scales

**2.084 Taylor SS, Jirinec V, Williams ST, Bresnan AM, Rodrigues PF, Perez Umphrey AA, Rutt CL, Long A, Stouffer PC**

Barred Owl Habitat Use Across an Urban Gradient