KAYLA LOUISE DAVIS

288 Farm Lane, Rm 203 Department of Integrative Biology, MSU East Lansing, MI 48824-1115 Phone: (910) 995-0249 Email: davisk93@msu.edu

EDUCATION

Michigan State University, East Lansing, MI

August 2018-Present

Ph.D. Student, Pursuing dual degree in Integrative Biology and Ecology, Evolutionary Biology, and Behavior Program

GPA: 4.0

Dissertation Topic: Optimizing aerial seabird survey design to model abundance and distribution of mixed

species seabird flocks in the Gulf of Mexico

Advisor: Elise Zipkin

Virginia Tech, Blacksburg, VA

January 2014-December 2016

Master of Science, Department of Fish and Wildlife Conservation

GPA: 4.0

Master's Thesis: "Behavioral and demographic effects of human activities and environmental factors on Roseate Tern parent-offspring interactions and hatch-year survival during the pre-migratory staging period at Cape Cod

National Seashore, Massachusetts"

Advisor: Sarah Karpanty

Wake Forest University, Winston-Salem, NC Bachelor of Science, Biology, Cum Laude, Honors in Biology

August 2007-May 2011

GPA: 3.48 Major GPA: 3.44

Minor: Chemistry

Honors Thesis: "Specificity of Trigeminal System Tolerance in Birds"

Honors Advisor: David J. Anderson

PUBLICATIONS

Davis, K.L., S.M. Karpanty, J.A. Spendelow, J.B. Cohen, M.A. Althouse, K.C. Parsons, C.F. Luttazi. 2019. Residency, recruitment, and staging duration of hatch-year roseate terns (*Sterna dougallii*) during the pre-migratory staging period. Avian Conservation and Ecology 14(2):11.

Davis, K.L., S.M. Karpanty, J.A. Spendelow, J.B. Cohen, M.A. Althouse, K.C. Parsons, C.F. Luttazi. 2019. Begging behavior as an honest signal of need and parent-offspring association during the post-fledging dependency period. Ecology and Evolution 9(13):7497–7508.

Althouse, M.A., J. Cohen, S. M. Karpanty, J.A. Spendelow, **K. L. Davis**, K.C. Parsons, C.F. Luttazi. 2018. Evaluating response distances to develop buffer zones for staging terns. The Journal of Wildlife Management 83:260–271.

Davis, K.L., D.H. Catlin, K.L. Hunt, M.J. Friedrich, S.J. Ritter, J.D. Fraser, and S.M. Karpanty. 2017. Hatch-year Piping Plover (*Charadrius melodus*) prospecting and habitat quality influence second-year nest-site selection. The Auk: Ornithological Advances 134:92–103.

Althouse, M.A., J. Cohen, J.A. Spendelow, S. M. Karpanty, **K. L. Davis**, K.C. Parsons, C.F. Luttazi. 2016. Quantifying the effects of research band resighting activities on staging terns in comparison to other disturbances. Waterbirds 39:417–421.

PLATFORM PRESENTATIONS

Davis, K. L., R. R. Wilson, A. L. Sussman, E. D. Silverman, J. E. Lyons, E. F. Zipkin. 2019. GoMMAPPS Aerial Survey Update. Oral presentation given at a regional planning meeting for the Gulf of Mexico Marine Assessment Program for Protected Species, September 18th, Lafayette, LA.

Davis, K. L., M. T. Farr, R. R. Wilson, E. D. Silverman, A. L. Sussman, J. E. Lyons, E. F. Zipkin. 2019. Optimizing aerial survey design: pitfalls and progress. Invited talk for symposium session entitled, "Counting unmarked birds: matching appropriate sampling and modeling techniques with particular research questions" at the American Ornithological Society Conference, June 28th, Anchorage, AK.

Davis, K. L., M. T. Farr, R. R. Wilson, E. D. Silverman, A. L. Sussman, J. E. Lyons, E. F. Zipkin. 2019. Optimizing aerial survey design: pitfalls and progress. Oral presentation at the Michigan State University Ecology, Evolutionary Biology, and Behavior Symposium, April 29th, East Lansing, MI.

Davis, K.L., S.M. Karpanty, J.A. Spendelow, J.B. Cohen, M.A. Althouse, K.C. Parsons, C.F. Luttazi. 2017. Behavior and demography of hatch-year Roseate Terns at a major tourist destination during the pre-migratory staging period. Oral presentation at the American Ornithological Society Conference, August 1st -5th, East Lansing, MI.

Davis, K.L., S.M. Karpanty, J.A. Spendelow, J.B. Cohen, M.A. Althouse, K.C. Parsons, C.F. Luttazi. 2016. Family Matters: Begging as an Honest Signaling Mechanism in hatch-year Roseate Terns (*Sterna dougallii*). Oral presentation at the Waterbirds Conference, September 19th-23rd, New Bern, NC.

Davis, K.L., S.M. Karpanty, J.A. Spendelow, J.B. Cohen, M.A. Althouse, K.C. Parsons, C.F. Luttazi. 2016. Hatch-year Roseate Tern (*Sterna dougallii*) Behavioral Response to Human and Non-human Disturbance at Pre-Migratory Staging Grounds. Oral presentation at the North American Ornithological Conference (NAOC), August 16th-20th, Washington D.C.

Davis, K.L. and S.M. Karpanty. 2015. Behavior and weekly residency of hatch year roseate terns during the staging period at Cape Cod National Seashore, Massachusetts. Oral presentation at the Roseate Tern Recovery Team Meeting, November 17th-18th, Westborough, MA.

Althouse, M.A. and **K.L. Davis**. 2015. Effects of disturbance at the Cape Cod National Seashore on the federally endangered roseate tern. Oral presentation at the Massachusetts Coastal Waterbird Cooperators Meeting, August 5th, Hyannis, MA.

Davis, K.L. and S.M. Karpanty. 2015. Behavioral and demographic effects of disturbance on juvenile roseate tern at Cape Cod National Seashore, Massachusetts. Oral presentation at the Virginia Tech Graduate Student Research Assembly Symposium, March 25th, Blacksburg, VA.

Davis, K.L. and S.M. Karpanty. 2014. Assessing the behavioral and demographic effects of human activities and natural events on roseate tern parents and hatch-years during the pre-migratory staging period at Cape Cod National Seashore, Massachusetts. Oral presentation at the Roseate Tern Recovery Team Meeting, November 19th-20th, Hadley, MA.

Althouse, M.A. and **K.L. Davis**. 2014. Importance of Cape Cod National Seashore to staging roseate terns. Oral presentation at the Massachusetts Coastal Waterbird Cooperators Meeting, August 4th, Hyannis, MA.

Davis, K.L., D.H. Catlin, K.L. Hunt, M.J. Friedrich, J.D. Fraser, S.M. Karpanty. 2014. Know place like the home place: juvenile prospecting behavior in piping plovers. Oral presentation at the Missouri River Natural Resources Conference and Biological Opinion Forum, March 11th-13th, Nebraska City, NE.

POSTER PRESENTATIONS

Davis, K.L. and S.M. Karpanty. 2016. Assessing the behavioral and demographic effects of disturbance on hatch-year roseate terns at Cape Cod National Seashore, MA. Poster presented at the Atlantic Coast Piping Plover and Least Tern Workshop, January 12th-15th, Shepardstown, WV.

Davis, K.L., D.J. Anderson, and W.L. Silver. 2011. Specificity of chemical irritant tolerance in birds. Poster presented at the Association for Chemoreception Sciences Society (AChemS) national meeting, April 13th-17th, St. Pete Beach, FL.

Davis, K.L., D.J. Anderson, and W.L. Silver. 2011. Specificity of chemical irritant tolerance in birds. Poster presented at the Symposium for Young Neuroscientists and Professors of the Southeast (SYNAPSE), March 2011, Winston-Salem, NC.

Davis, K.L., D.J. Anderson, and W.L. Silver. 2010. Specificity of chemical irritant tolerance in birds. Poster presented at the Wake Forest University Undergraduate Research Fellowship Day, October 2010, Winston-Salem, NC.

FELLOWSHIPS, SCHOLARSHIPS, AND AWARDS

Early Start Fellowship

Summer 2018

\$6,000 awarded to begin the Ph.D. program in the Integrative Biology Department at Michigan State University.

Virginia Tech, College of Natural Resources and Environment

Spring 2017

Outstanding Master's Student Award

Virginia Tech, Fish and Wildlife Conservation Department Harold E. Burkhart Outstanding Master's Student Award

Spring 2017

North American Ornithological Conference Student Travel Award

Summer 2016

\$145 awarded by the American Ornithologists' Union for travel to the North American Ornithological Conference in Washington D.C.

Roanoke Valley Bird Club Scholarship

Spring 2015

\$930 awarded through the Virginia Tech Department of Fish and Wildlife Conservation for academic and professional achievement in wildlife biology and conservation.

Robert L. Sullivan Scholarship

Summer 2009 and Spring 2011

- \$2,000 awarded in summer 2009 for undergraduate students with the desire to pursue biological studies outside of the classroom.
- \$400 awarded in spring 2011 to assist with travel expenses to St. Pete Beach, Florida for a presentation at the AChemS (Association for Chemoreception Sciences) national meeting.

Wake Forest Undergraduate Research Fellowship

Summer 2010

\$4,380 in funding and stipends to pursue an independent research project under the guidance of mentor professor, Dave Anderson.

WORKSHOPS AND TRAINING

Helicopter Underwater Egress Training (HUET) &

January 31, 2020

Compressed Air Emergency Breathing System Training (CA-EBS)

Shell Robert Training Center, Robert, LA

Intermediate Program MARK Workshop

June 1–6, 2014

Colorado State University, Fort Collins, CO

Microsoft Access 2010-Advanced Workshop December 5, 2013

Virginia Tech, Blacksburg, VA

Microsoft Access 2010-Intermediate Workshop November 7, 2013

Virginia Tech, Blacksburg, VA

Microsoft Access 2010-Introductory Workshop October 24, 2013

Virginia Tech, Blacksburg, VA

SERVICE & PUBLIC OUTREACH

Reviewed articles for:

- Avian Conservation and Ecology
- The Condor: Ornithological Applications
- Journal of Animal Ecology
- Journal of Coastal Research
- Oikos
- Peerl
- The Wilson Journal of Ornithology

Girls Math and Science Day (GMSD) at Michigan State University. March 2, 2019. Presented an activity at GMSD entitled "Math and Monarchs," where students interacted with a Shiny app built by the Zipkin lab to understand monarch butterfly population dynamics.

Davis, K.L. 2015. All birds need a place to rest: Importance of stopover sites and staging grounds. Educational presentation for the Roanoke Valley Bird Club, November 9th, Roanoke, VA.

Althouse, M.A. and **K.L. Davis**. 2015. Effects of disturbance at the Cape Cod National Seashore on the federally endangered roseate tern. Educational presentation at the Science at the Seashore Symposium, August 27th, Eastham, MA.

Davis, K.L. 2015. All birds need a place to rest: Importance of stopover sites and staging grounds. Educational presentation for the Friends of the Assabet River National Wildlife Refuge, July 8th, Sudbury, MA.

Graduate Student Panel Discussion. February 4th, 2015. Participated as a graduate student panel member at a meeting of the Virginia Tech chapter of The Wildlife Society to discuss graduate school and post-graduation employment options for undergraduate students.

Guest Lecture. February 4th, 2015. Presented bird capture and handling techniques in a senior-level undergraduate Field Techniques course at Virginia Tech.

Guest Lecture. February, 2014. Presented bird capture and handling techniques in a senior-level undergraduate Field Techniques course at Virginia Tech.

FIELD & LAB WORK EXPERIENCE

Aerial Bird Survey Crew Member	February 2020
U.S. Fish and Wildlife Service, Gulf of Mexico, USA	
Marbled Murrelet Field Technician	April 2017–August 2017
Oregon State University, Corvallis, OR	
St. Thomas Roseate Tern Annual Census Participant	May 2016
U.S. Virgin Islands Fish and Wildlife Service, USVI	
Great Gull Island Tern Bander and Census Participant	Summer 2014, 2015, 2016
American Museum of Natural History, Great Gull Island, NY	
Piping Plover and Least Tern Field Crew Leader	April 2013–August 2013
Virginia Tech Shorebird Program, Vermillion, SD	
Piping Plover and Least Tern Field Technician	April 2012–August 2012
Virginia Tech Shorebird Program, Vermillion, SD	
Laboratory Assistant	Fall 2009–May 2011
Wake Forest University, Winston- Salem, NC	