



ANDREW J. DENNHARDT

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STATUS AND AVAILABILITY

Country of Citizenship: United States of America
Federal Experience: Intern, Student Conservation Association, U.S. Forest Service, 05/2009 – 08/2009
Job Type: Permanent, Temporary, Term, Presidential

Management Fellows, Recent Graduates, Multiple Appointment Types, Internships, Telework
Work Schedule: Full-Time, Part-Time, Multiple Schedules
Desired Locations: offices in the coterminous U.S.

OBJECTIVE

To foster a lifelong interdisciplinary career in research, conservation, management, and public service with one of the following natural resource agencies, the: U.S. Animal and Plant Health Inspection Service, Bureau of Land Management, Environmental Protection Agency, Fish and Wildlife Service, Forest Service, or Geological Survey, especially in one or more of the following roles, as a: Biometrician, Data Scientist, Fisheries and Wildlife Biologist, Interdisciplinary Biologist, Quantitative Ecologist, Research Ecologist, Statistician, and/or Supervisory Fisheries and Wildlife Biologist.

QUICK TAKEAWAYS

Work Experience

- Graduate Research Assistant
 - 08/2014 – 08/2021
 - Ph.D. Candidate, 11/2017 – 06/2021
 - Course requirements (complete)
 - Comprehensive exams (complete)
 - Dissertation publishing (in progress)
 - Mentored by 4 faculty members
- Statistical Consultant
 - 05/2016 – 09/2020
 - 4,296 hours of direct consulting
 - 1 of > 8 graduate student consultants
 - Working with > 5 senior statisticians
 - 126 clients across > 10 colleges
 - Faculty and research staff
 - Post-doctoral researchers
 - M.S. and Ph.D. students
 - Undergraduate students

Education

- B.S. Zoology (conferred)
- M.S. Wildlife and Fisheries Resources (conferred)
- Dual Ph.D. (in progress)
 - Fisheries and Wildlife
 - Ecology, Evolution, and Behavior
 - MSU Cumulative GPA, 4.00 out of 4.00
- Mean Cumulative GPA, 3.95 out of 4.00

Publications, Honors, Awards, Grants, and Symposia

- 9 research articles and short communications
- 2 book chapters and 3 media articles
- 12 different journal and book publishing outlets
- 25 honors, awards, scholarships, fellowships, and grants
- 24 oral, poster, invited, and attended symposia

Service, Organizations, and Professional Activities

- 19 public, community, and university service activities
- 14 professional-society and other activities

SKILLS SUMMARY

- Determined, focused, motivated, and highly versatile Research Professional, with >15 years of experience in Academic Scholarship, Data Collection, Quality Control, and Management, as well as in Research Design, Scientific Communication and Publishing, Extracurricular Volunteerism, and Community Service.
- Utilizing my background in Conservation Biology, Population and Community Ecology, and Statistical Analysis to conduct applied research on wild animals toward their conservation in North America.
- Effective scientific communicator: see pgs. 4, 7 – 10.
- Skillful interdisciplinary researcher: see pgs. 2 – 4.
- Multi-faceted communicator: see pgs. 2 – 5, 7 – 15.
- Supportive coworker: see pgs. 2 – 4, 10 – 15.
- Talented relationship builder: see pgs. 2 – 4, 10 – 15.
- Decorated early career scholar: see pgs. 5 – 7.
- Engaged early career professional: see pgs. 7 – 15.
- Devoted leader for the common good: see pgs. 10 – 15.
- Occupational versatility and diverse skillset, described in detail below, collectively demonstrate my suitability as a future employee and civil servant of the U.S. Federal Government.

WORK EXPERIENCE

GRADUATE RESEARCH ASSISTANT AND STATISTICAL CONSULTANT: Michigan State University, Department of Fisheries and Wildlife in East Lansing, MI 48824; 40 hours per week (i.e. 20 hours at MSU Fisheries and Wildlife and 20 hours at MSU Center for Statistical Training and Consulting); \$20,000 per year; August 2014 – August 2021.

- **Major advisors:** Dr. Brian Maurer (2014 – 2016; now deceased), Dr. Gary Roloff (2017 – present)
- **Committee members:** Drs. Gary Roloff, Phoebe Zarnetske, Elise Zipkin, and Kendra Cheruvellil (2017 – present).
- **Degree programs:** Ph.D. candidate in the Fisheries and Wildlife and Ecology, Evolution, and Behavioral Biology.
- **Dissertation Chapter 1:** Co-authored a book chapter and literature review with respect to how macroecological concepts and the theory of island biogeography may inform applied restoration efforts in diverse ecosystems around the world.
- **Dissertation Chapter 2:** Consulted on a project for the MSU Quantitative Fisheries Center that modeled relative abundances of Lake Huron fisheries to historic environmental data in a state-space time series model, called Dynamic Factor Analysis. Experience with composing, revising, and delivering three technical reports, describing the methods and results, for this project. Software: R and RStudio (multiple versions).
- **Dissertation Chapter 3:** Consulted on a project for the MSU Applied Forest and Wildlife Ecology Lab that included modeling bird community responses to Conservation Reserve Enhancement Program practices, as well as landscape factors, in Michigan. Software: R and RStudio (multiple versions).
- **Dissertation Chapter 4:** Developed a project to investigate how allometric-scaling relationships (i.e. body mass scaling with population size) may help estimate population abundance of wild birds on continental scale using count indices from the Breeding Bird Survey in North America.
- **Statistical Consulting:** Continuing to serve as a statistical consultant for 4,296 hours across 126 clients from >10 different colleges with the Center for Statistical Training and Consulting during May 2016 – September 2020. Primarily or secondarily (i.e. alongside a senior statistician) tutored between 8 – 15 undergraduate and graduate student, post-doctoral, research staff, and/or faculty clients every week on how to: (1) identify the most appropriate statistical tools for their data, (2) apply various statistical analyses to their data, (3) write up statistical findings in their reports, journal manuscripts, or theses/dissertations, and/or (4) help clients design surveys/proposals for their research projects. Attended weekly staff meetings, wherein student consultants and senior statisticians discussed strategies and analyses for specific client cases. Worked with clients from MSU's Departments of Accounting and Information Systems, Counseling, Educational Psychology, and Special Education, Earth and Environmental Sciences, Engineering, Entomology, Fisheries and Wildlife, Food Science and Human Nutrition, Geography, Integrative Biology, Kinesiology, Plant Biology, Political Science, and many more. Discussed, recommended, and/or worked with statistical tools with clients, including: *a priori* (e.g., customized) power analyses, *t*-tests, Chi-square tests of independence, one-, two-, and three-way Analyses of Variance or Covariance, General and Generalized Linear Models (including spatiotemporal models), hierarchical/mixed-effect/multi-level models (using Frequentist or Bayesian inference), Trend Surface Analysis, and various multivariate tools such as Principal Component Analyses and Permutational Multivariate Analysis of Variance, and much more. Assisted the unit with designing a new logo and recruited new clients in my everyday conversations with fellow professionals regarding their data analyses on campus. Software: ArcGIS, PASS, R, RStudio, SAS, and SPSS (multiple versions).
- **Independent Research:** Self-designed a project that deals with updating ecological theory with new work on species' abundance, body size, geographic range, and within-range scaling relationships. Software: R and RStudio (multiple versions).
- **Independent Research:** Consulted and served as a co-principal investigator with Dr. Gary Roloff on a project granted by The Nature Conservancy. Applied multivariate abundance (negative binomial) and ordination (principal coordinates and non-metric multidimensional scaling) models using repeated measures on forest composition, vegetation structure, and bird populations for use in managing the study area for biodiversity. Experience with composing, revising, and delivering two technical reports, describing the methods and results, for this project. Software: R and RStudio (multiple versions).
- **Disciplinary Collaboration:** Consulted on a project for the MSU Applied Forest and Wildlife Ecology Lab that included modeling multispecies rodent community abundances in response to silvicultural practices on industrial forest properties in the Pacific Northwest using Generalized Linear Mixed Effect Models. Software: R and RStudio (multiple versions).
- **Curricular Service:** Worked as a Teaching Assistant for Dr. Brian Maurer and his Applied Multivariate Statistics (FW 850) course during spring 2016. Delivered topical lectures on and evaluated graduate student homework involving Association (Distance) Matrices, Cluster Analysis, Principal Components Analysis, Principal Coordinates Analysis, Non-metric Multidimensional Scaling, Correspondence Analysis, Factor Analysis, Canonical Correlation Analysis, Discriminant Function Analysis, and Multivariate Analysis of Variance. Software: R and RStudio (multiple versions).
- **Extracurricular Service:** Co-founded an extracurricular organization focused on aspects of ecological research in practice, called the Quantitative Ecology Reading Group (2015 – present). Mentored peers in the use of statistical tools in ecological research. Software: R and RStudio (multiple versions).
- **Extracurricular Service:** Volunteered on a curriculum advisory committee, including four faculty members and a fellow Ph.D. student, to develop a 2 – 3 credit hour graduate-level seminar course that focused on enriching natural resource scientists as analysts, communicators, facilitators, networkers, leaders, and career professionals of tomorrow.

- **Notable Conferences:** Ecological Society of America (2015), Midwest Fish and Wildlife Conference (2016), International Association for Great Lakes Research (2017), The Wildlife Society (2018), Fisheries and Wildlife Graduate Student Research Symposium (2015, 2016, 2017, 2018, 2019), and more. Delivered presentations to diverse audiences at most meetings.

RESEARCH INTERN: Student Conservation Association and U.S. Fish and Wildlife Service, 2019 Directorate Fellows Program, Ventura Fish and Wildlife Office, Ventura, CA 93003; 40 hours per week; \$12,000 work and travel stipend; May 2019 – August 2019.

- Developed draft management plan for federally-endangered least Bell’s vireos (*Vireo bellii pusillus*) inhabiting the Santa Clara River watershed in Los Angeles and Ventura Counties, California. Designed proposal for a rangewide sampling scheme for the species in California, based on Generalized Random Tessellation Stratified Sampling (GRTSS). Draft management plan helped garner many thousands of dollars in funding for implementing a pilot survey of the Santa Clara River starting in 2021. Funding provided by the U.S. Department of Interior Environment and Related Agencies Appropriations Act of 2020.
- Participated in three scientific outreach events on behalf of the U.S. Fish and Wildlife Service, including an environmental education festival at Two Rivers Park, an environmental education tour of the San Buenaventura State Beach for Big Brothers and Big Sisters of Ventura County, and an environmental education tour of the Bitter Creek National Wildlife Refuge located in Fillmore, Ventura, and Maricopa, CA, respectively.
- Helped process and evaluate wild California condors (*Gymnogyps californianus*) for overall health and body condition at the Bitter Creek National Wildlife Refuge in Maricopa, CA.
- Joined a site visit with U.S. Fish and Wildlife Service and Western Foundation of Vertebrate Zoology staff to evaluate the site’s potential for inclusion in a regional conservation mitigation bank for qualified permittees near Saticoy, CA.
- Interviewed multiple Ventura Fish and Wildlife Service staff across multiple divisions to garner a better understanding of the work that they do as well as any potential opportunities for future work or collaboration.
- Delivered three oral presentations to U.S. Fish and Wildlife Service staff, including presentations on statistical analyses and survey designs, sampling schemes for rare spatially-clustered species, and hierarchical estimation of least Bell’s vireo population abundance at local, regional, and rangewide scales.

RESEARCH EMPLOYEE: West Virginia University, Division of Plant and Soil Science in Morgantown, WV 26506; 40 hours per week; \$23.00 per hour biweekly; May 2014 – August 2014.

- Managed relational databases and integrated various statistical models to estimate Carbon stocks on the landscape scale in affiliation with the U.S. Department of Agriculture (USDA) and the WVU Geospatial Research Unit. Analyzed United States’ soil science data sources (i.e. STATSGO2 and SSURGO) to synthesize estimates of soil organic Carbon using Granger-Ramanathan Model Averaging. Experience with composing, revising, and delivering one technical report, describing the methods and results, for this project. Software: ArcGIS, R, and RStudio (multiple versions).
- Assisted with focus groups, design, and implementation of the USDA-sponsored Carbon Data Visualization Tool.

GRADUATE RESEARCH ASSISTANT: West Virginia University, Division of Forestry and Natural Resources in Morgantown, WV 26506-6125; 40 hours per week; \$18,500 per year; August 2011 – May 2014.

- Major advisor: Todd Katzner, Ph.D., West Virginia University.
- Master of Science in the Wildlife and Fisheries Resources degree program.
- Studied Golden eagle population and migration ecology as both relate to management and conservation in eastern North America. Research included analyses of migration count data (i.e. the HawkCount national database), computer modeling of potential flight routes (i.e. >6,000 flight routes comprising >25,000,000 simulated eagle movements), and virtual mark-recapture based on historic counts of eagles at migration watch sites in the study region. Software: ArcGIS, MARK, R, and RStudio (multiple versions).
- Managed and processed trail-camera images for the Appalachian Eagles online forum (<http://www.appalachianeagles.org>).

RESEARCH EMPLOYEE: Green Diamond Resource Company, California Timberlands Division in Korbel, CA 95550-0068; 40 hours per week; \$15.00 per hour biweekly; February 2011 – August 2011.

- Surveyed for raptors including: Bald eagle, Golden eagle, Peregrine falcon, Osprey, Northern spotted owl, and Barred owl. Diurnal raptor surveys consisted of stationary observations with optical equipment over pre-cut and post-cut timber harvest plots. Nocturnal raptor surveys consisted of audible and visual observations at survey stations while broadcasting recorded owl calls. Diurnal surveys of Northern spotted owl involved on-the-ground observations at historic or recent nesting territories. Collected data on birds’ reproductive statuses during each survey.
- Collected and recorded all data using Garmin GPS units, Rite-in-the-Rain field notes, time-keeping units, megaphone callers (during nocturnal surveys), departmental forms, and various optical devices.
- Gained experience with driving safely on industrial logging roads. Gained additional (though unofficial) certification and experience with All Terrain Vehicles (i.e., quad-runners). Earned a Vehicle Safety Award in summer 2011.

RESEARCH EMPLOYEE: Forest Preserve District of DuPage County in Wheaton, IL 60189-8761; 40 hours per week; \$10.00 per hour biweekly; May 2010 – August 2010.

- Blanding’s turtle recovery project: trapped turtles, measured environmental variables, baited sites, fitted individuals with radio transmitters, collected and incubated eggs from females, built housing pens, identified different turtle species in the field, maintained pens of juvenile Blanding’s turtles for future introduction to the wild (fed captive-reared turtles, cleaned their pens, and watered them), inoculated turtles with Fortaz, and traveled between field sites to check/re-bait/empty box traps in local marshes.
- Barn owl reintroduction project: released owls to local hack sites, fed them rodents during hack-wild transitional period, fitted owls with federal leg bands, transported owls between housing facility and wildlife center, and maintained pens of feeder-rodents (mice and rats).

RESEARCH INTERN: Student Conservation Association and U.S. Forest Service, Happy Camp Ranger District, Klamath National Forest in Happy Camp, CA 96039; 40 hours per week; \$75.00 stipend weekly (i.e. \$150.00 stipend biweekly); May 2009 – August 2009.

- Mapped, surveyed, and removed 100-1000+ invasive plant species for the Botany Department. Surveyed, recorded data, and monitored the following species: Northern spotted owls, Northern goshawks, Bald eagles, and Peregrine falcons during their breeding seasons for the Wildlife Department. Software: ArcGIS (multiple versions).
- Cleaned up trash and debris from the Klamath River with the River Recreation Department.
- Volunteered, among all three departments, for a total of 531 hours.

RESEARCH VOLUNTEER: alongside Sarah Wakamiya, Master’s student in affiliation with the Cooperative Wildlife Research Laboratory at Southern Illinois University-Carbondale (IL) 62901; 10 hours per week; \$0.00 (i.e. volunteer service with relevant research experience); January 2007 – March 2007 and January 2008 – May 2008.

- Surveyed for Great-horned owls in potential Peregrine falcon habitats. Recorded and entered data for Sarah’s thesis work involving a Population Viability Analysis for reintroducing Peregrine falcons in southern Illinois.
- Studied natal dispersal behavior in Peregrine falcons as part of my Senior Honors Thesis, and published research results in the *Journal of Raptor Research* (2013). Software: R and RStudio (multiple versions).

EDUCATION*

Institution	Degree	Graduation Year
Michigan State University (MSU)	Ph.D. (Fisheries and Wildlife) Ph.D. (Ecology, Evolution Biology, and Behavior) Current GPA: 4.00 out of 4.00	2021
West Virginia University (WVU)	M.S. (Wildlife and Fisheries Resources) Cumulative GPA: 3.92 out of 4.00	2014
Southern Illinois University-Carbondale (SIUC)	B.S. (Zoology) Minor (Environmental Studies) Cumulative GPA: 3.92 out of 4.00	2010

* **Note:** please see enclosed institution transcripts for information about completed coursework and performance.

AREAS OF SPECIALIZATION

Biometry, Computational Ecology, Conservation Biology, Data Analysis, Fisheries and Wildlife Research and Management, Interdisciplinary Science, Landscape Ecology, Movement Ecology, Ornithology, Population and Community Ecology, Quantitative Ecology, Raptor Ecology, Spatial and Temporal Ecology, Statistical Consulting, and Statistics.

CERTIFICATIONS EARNED

3. Graduate Certification in Leadership, MSU Great Lakes Leadership Academy’s Emerging Leader Program (fall 2018)
2. Graduate Certification in Spatial Ecology, MSU College of Agriculture and Natural Resources (spring 2018)
1. CPR and First Aid Certification, American Heart Association (fall 2011 – spring 2021)

PEER-REVIEWED PUBLICATIONS

9. **Dennhardt, A.J.**, M. Maddox, A.E. Duerr, and D. Brandes. 2021. Population Status. Pages TBD in A Conservation Plan for Golden Eagles in Eastern North America. *Eastern Golden Eagle Working Group. In prep.*

8. Gray, S.M., G.J. Roloff, **A.J. Dennhardt**, B.P. Dotters, and T.T. Engstrom. 2019. Patch structures influence small mammal abundance in intensively managed forests of northern California, USA. *Forest Science* 65:796-804.
7. Brown, J.H. and **A.J. Dennhardt**. 2018. Brian Maurer (1954-2018). *Nature Ecology and Evolution* 2:1684.
6. **Dennhardt, A.J.**, A.E. Duerr, D. Brandes, and T.E. Katzner. 2017. Applying citizen-science data and mark-recapture models to estimate numbers of migrant Golden Eagles in an Important Bird Area in eastern North America. *The Condor: Ornithological Applications* 119:817-831.
5. **Dennhardt, A.J.** 2015. Accounting for raptors beyond our sight: modeling migration and hawk-count data to estimate the golden eagle population in eastern North America. *Journal of Hawk Migration Studies* 40:10-13.
4. **Dennhardt, A.J.**, A.E. Duerr, D. Brandes, and T.E. Katzner. 2015. Integrating citizen-science data with movement models to estimate the size of migratory golden eagle population. *Biological Conservation* 184:68-78.
3. **Dennhardt, A.J.**, A.E. Duerr, D. Brandes, and T.E. Katzner. 2015. Modeling autumn migration of a rare soaring raptor identifies new movement corridors in central Appalachia. *Ecological Modelling* 303:19-29.
2. **Dennhardt, A.J.** 2014. Modeling migration and citizen-science data to estimate golden eagle abundance in eastern North America (Master's Thesis). West Virginia University Press, Morgantown, West Virginia, USA. 108pp.
1. **Dennhardt, A.J.** and S.M. Wakamiya. 2013. Effective dispersal of peregrine falcons (*Falco peregrinus*) in the Midwest, USA. *Journal of Raptor Research* 47:262-270.

PEER-REVIEWING ACTIVITY

2020- Journal of Raptor Research; **2018-** Journal of Raptor Research, Ecology and Evolution; **2017-** Proceedings of the Royal Society – B, Canadian Field Naturalist, Journal of Raptor Research, Ecology and Evolution; **2016-** PeerJ, Journal of Raptor Research (2), The Auk: Ornithological Advances; **2015-** PLoS ONE, Journal of Field Ornithology, Journal of Raptor Research; **2013-** Journal of Raptor Research.

BOOKS, BOOK CHAPTERS, BOOK EDITING

2. **Dennhardt, A.J.**, M.E.K. Evans, A. Dechner, L.E.F. Hunt, and B.A. Maurer. 2016. Chapter 16: Macroecology and the theory of island biogeography: abundant utility for applications in restoration ecology. Pages 455-483 in *Foundations of Restoration Ecology*, Second edition, Palmer, M.A., J.B. Zedler, and D.A. Falk (Eds.). Island Press, Washington, DC, USA.
1. **Dennhardt, A.J.** and T.E. Katzner. 2013. The golden eagle. World Book Encyclopedia Online. Available at: <http://www.worldbookonline.com/academic/article?id=ar755278&dst=golden+eagle>.

MEDIA PUBLICATIONS

3. **Dennhardt, A.J.** 2017. Estimating eagle populations. *MSU Today, 360 Perspective, Student View*. Available at: <https://msutoday.msu.edu/360/2017/andrew-dennhardt-estimating-eagle-populations>.
2. **Dennhardt, A.J.** 2017. Citizen-science data and capture-mark-recapture models to estimate numbers of rare species. *The Condor: Ornithological Applications, Author Blog*. Available at: <https://americanornithologypubsblog.org/2017/10/18/author-blog-citizen-science-data-and-capture-mark-recapture-models-to-estimate-numbers-of-rare-species/>.
1. **Dennhardt, A.J.** 2017. How many golden eagles are there? *The Condor: Ornithological Applications, Press Release*. Available at: <https://americanornithologypubsblog.org/2017/10/18/how-many-golden-eagles-are-there/>.

HONORS

MSU

3. Student Consultant Honorarium, Center for Statistical Training and Consulting (2020)
2. Nominee, BioOne Ambassador Award for early-career researchers (2018)
1. Graduate, Emerging Leader Program, Great Lakes Leadership Academy (2018)

WVU

7. Hawk Migration Association of North America Research Award (2012)
6. \$250.00 1st place award: Master's Oral Presentation Award, Graduate Research Competition, Davis College, (2012)
5. \$168.00 travel award, Wilson Society for Ornithology annual meeting (2013)
4. \$150.00 2nd place award: Master's Oral Presentation Award, Graduate Research Competition (2013)
3. Outstanding Graduate Student Award, Division of Forestry and Natural Resources
2. 1st runner-up: William C. Andersen Memorial Award, Raptor Research Foundation Conference (2013)
1. \$500 award, Robert H. Maxwell Travel Endowment (2013)

SIUC

8. USA Today's All-USA, All-College Academic Team Honorable Mention, USA Today (2010)
7. 2nd place award for research presentation, Undergraduate Research Forum (2010)
6. National Civic Service Award, Office of the President of the United States (2010)
5. SIU 25 Most Distinguished Seniors Award, SIU Alumni Association (2010)
4. Lead orator, Student Speaker's Forum, Department of Speech Communications (2009)
3. SIU Environmental Ambassador, Office for Student Development (2009, 2010)
2. University Honors Program (2006 – 2010)
1. Dean's List, College of Science (2006, 2007, 2008, 2009, 2010)

FELLOWSHIPS AND SCHOLARSHIPS

MSU

7. Graduate Student Emergency (i.e. COVID-19 Pandemic Relief) Funding, Graduate School (2020)
6. Janice Lee Fenske Memorial Scholarship, Midwest Fish and Wildlife Conference (2020)
5. Disciplinary Leadership Award, Council of Graduate Students (2019)
4. Graduate Student Scholarship, College of Agriculture and Natural Resources Alumni Association (2019)
3. George J. Wallace and Martha C. Wallace Endowed Scholarship Award, Department of Integrative Biology (2018)
2. Dr. Fred Poston Scholarship, Great Lakes Leadership Academy (2018)
1. Department of Fisheries and Wildlife Graduate Fellowship (2015, 2016, 2017, 2018)

WVU

1. Hoyt Scholarship, Division of Forestry and Natural Resources, West Virginia University (2013)

SIUC

8. Nominee, Phi Kappa Phi Chapter Scholarship and National Fellowship, Chapter of Phi Kappa Phi (2010)
7. Service to Southern Award, Office for Student Development (2010)
6. Jan Martan Undergraduate Scholarship, Department of Zoology (2010)
5. Charles L. Foote Memorial Scholarship, Department of Zoology (2009)
4. Michael W. Wolff Memorial Scholarship, College of Science (2009)
3. Nominee, Goldwater Scholarship (2008, 2009)
2. Fred A. Seaton Memorial Scholarship, Beta Theta Pi Fraternity (2007)
1. Southern Illinois University Dean's Scholarship, College of Science (2006)

GRANTS AND RESEARCH FUNDING

MSU

15. \$700 research grant, Applied Forest and Wildlife Ecology Laboratory (2021)
14. \$200.00 travel grant, Michigan Chapter of The Wildlife Society (2020)
13. \$150 travel grant, Center for Statistical Training and Consulting (2020)
12. \$300.00 travel grant, Mackinaw City Raptor Festival and Conference (2019)
11. \$300.00 travel grant, Center for Statistical Training and Consulting (2019)
10. \$300.00 travel grant, Center for Statistical Training and Consulting (2018)
9. \$400.00 travel grant, Ecology, Evolution, and Behavior Program (2018)
8. \$200.00 travel grant, Fisheries and Wildlife Graduate Student Organization (2018)
7. \$4,200.00 research grant, Department of Integrative Biology (2018)
6. \$300.00 travel grant, Center for Statistical Training and Consulting (2017)
5. \$5,000.00 research grant, The Nature Conservancy (2016)
4. \$400.00 research grant, Department of Integrative Biology (2016)
3. \$75.00 travel grant, Department of Fisheries and Wildlife (2016)
2. \$700.00 travel grant, The Graduate School, College of Agriculture and Natural Resources (2015)
1. \$150.00 travel grant, Fisheries and Wildlife Graduate Student Organization (2015)

WVU

4. \$2,500.00 travel grant, College of Agriculture, Natural Resources, and Design, Dean's Office (2013)
3. \$1,000.00 research grant, Hawk Migration Association of North America Research Grant (2012)
2. \$1,000.00 research grant, Virginia Society of Ornithology (2012)
1. \$1,000.00 research grant, Highlanders for Responsible Development (2012)

SIUC

1. \$1,250.00 research grant, Office of Research Development and Administration (2008)

WORK PRESENTED, MEETINGS ATTENDED, AND INVITED SYMPOSIA

MSU

26. Attendee, regional (virtual) meeting, Eastern Golden Eagle Working Group, East Lansing, MI (spring 2021)
25. Attendee, annual (virtual) meeting, Fisheries and Wildlife Graduate Student Research Symposium, East Lansing, MI (spring 2021)
24. Attendee, annual meeting, Fisheries and Wildlife Graduate Student Research Symposium, East Lansing, MI (spring 2020)
23. Workshop instructor and attendee, annual meeting, Midwest Fish and Wildlife Conference, Springfield, IL (spring 2020)
 - Workshop presentation: Dennhardt, A. and G. Roloff. Data exploration to avoid common statistical problems.
 - Workshop also included an example walkthrough script on presented statistical concepts using R via RStudio.
22. Attendee, annual (joint) meeting, American Fisheries Society and The Wildlife Society, Reno, NV (fall 2019)
21. Attendee, regional meeting, Eastern Golden Eagle Working Group, Mackinaw City, MI (spring 2019)
20. Annual meeting, Fisheries and Wildlife Graduate Student Research Symposium, East Lansing, MI (spring 2019)
 - Moderator: Session III.
19. Annual meeting, The Wildlife Society, Cleveland, Ohio (fall 2018)
 - Oral presentation: Dennhardt, A., A. Van Loan, G. Roloff, K. Millenbah, and Henry Campa III. Reaping what we sow: grassland bird community responses to Conservation Reserve Enhancement Program practices in Michigan.
18. Invited speaker, September meeting, Ecology, Evolutionary Biology, and Behavior Graduate Student Colloquium (fall 2018)
 - Oral presentation: Dennhardt, A., A. Van Loan, G. Roloff, K. Millenbah, and Henry Campa III. Reaping what we sow: grassland bird community responses to Conservation Reserve Enhancement Program practices in Michigan.
17. Attendee, July meeting, Michigan Natural Resources Commission (summer 2018)
16. Invited speaker, May meeting, Kellogg Bird Sanctuary “Field Ornithology Course for Adults” (spring 2018)
 - Oral presentation: Dennhardt, A., G. Roloff, D. Pearsall, P. Doran, and C. Hall. Forest bird communities meet modern silviculture: an investigation of the Two Hearted River Forest.
15. Attendee, annual meeting, Ecology, Evolutionary Biology, and Behavior Graduate Student Research Symposium (spring 2018)
 - Judge: poster presentations (4 graduate students).
14. Attendee, annual meeting, Midwest Ecology and Evolution Conference (spring 2018)
 - Moderator: Population and Community Ecology, Session I.
 - Panelist: Getting Into and Succeeding in Graduate School.
13. Annual meeting, University Undergraduate Research and Arts Forum, East Lansing, MI (spring 2018)
 - Poster presentation: Heit, D., A. Boike, A. Dennhardt, and D. Hayes. States of bird abundance in a Great Lakes wetland: influential landscape factors and recommendations for management.
 - Poster presentation: Boike, A., D. Heit, A. Dennhardt, and D. Hayes. States of bird diversity in a Great Lakes wetland: influential landscape factors and recommendations for management.

12. Annual meeting, Fisheries and Wildlife Graduate Student Research Symposium, East Lansing, MI (spring 2018)
 - Oral presentation: Dennhardt, A., G. Roloff, D. Pearsall, P. Doran, and C. Hall. Forest community dynamics and northern hardwoods silviculture: a longitudinal analysis of the Two Hearted River Forest System.
 - Poster presentation: Heit, D., A. Boike, A. Dennhardt, and D. Hayes. States of bird abundance in a Great Lakes wetland: influential landscape factors and recommendations for management.
 - Poster presentation: Boike, A., D. Heit, A. Dennhardt, and D. Hayes. States of bird diversity in a Great Lakes wetland: influential landscape factors and recommendations for management.
 - Moderator: Session III.
11. Weekly staff meeting, Center for Statistical Training and Consulting, East Lansing, MI (fall 2017)
 - Oral presentation: Dennhardt, A. Capture-mark-recapture models in ecology.
10. Annual (joint) meeting, American Ornithological Society and Society of Canadian Ornithologists, East Lansing, MI (summer 2017)
 - Oral presentation: Dennhardt, A., G. Roloff, D. Pearsall, P. Doran, and C. Hall. Effects of northern hardwoods silviculture on forest bird community dynamics.
9. Annual meeting, International Association for Great Lakes Research, Detroit, MI (summer 2017)
 - Oral presentation: Dennhardt, A., B. Maurer, J. Bence, T. Brenden, W. Fetzer, A. Cottrill, D. McLeish, C. Riseng, K. Wehrly, and D. Forsyth. Spatiotemporal factors and their impacts to Lake Huron fish communities.
8. Attendee, annual meeting, Ecology, Evolutionary Biology, and Behavior Graduate Student Research Symposium (spring 2017)
 - Judge: oral presentations (3 faculty).
7. Annual meeting, Michigan Chapter of The Wildlife Society, Gaylord, MI (spring 2017)
 - Oral presentation: Dennhardt, A., G. Roloff, D. Pearsall, P. Doran, and C. Hall. Forest community dynamics and northern hardwoods silviculture: a longitudinal analysis of the Two Hearted River Forest System.
6. Attendee, “Third Annual Graduate Workshop on Environmental Data Analytics,” National Center for Atmospheric Research and University Corporation for Atmospheric Research, Boulder, CO (summer 2016)
5. Annual meeting, Midwest Fish and Wildlife Conference, Grand Rapids, MI (spring 2016)
 - Oral presentation: Dennhardt, A., J. Bence, T. Brenden, B. Maurer, W. Fetzer, C. Riseng, K. Wehrly, and D. Forsyth. Assessing Factors Influencing Population Dynamics in Lake Huron Fish Communities Using Dynamic Factor Analysis.
4. Invited speaker, August meeting, Thursday Inter-Lab Quantitative Seminar Series, East Lansing, MI (fall 2015)
 - Oral presentation: Dennhardt, A., J. Bence, T. Brenden, B. Maurer, W. Fetzer, C. Riseng, K. Wehrly, and D. Forsyth. Assessing Factors Influencing Population Dynamics in Lake Huron Fish Communities Using Dynamic Factor Analysis.
3. Annual meeting, Ecological Society of America, Baltimore, MD (fall 2015)
 - Oral presentation: Dennhardt, A., A. Duerr, D. Brandes, G. Merovich, Jr., and T. Katzner. 2015. Integrating Citizen-Science Data with Movement Models to Estimate Raptor Populations: A Case Study with Golden Eagles in Eastern North America.
 - Poster presentation: Maurer, B.A., Dechner, A., Dennhardt, A.J., and L.E.F. Hunt. 2015. Statistical thermodynamics of photosynthesis predicts increasing order of size distributions with increasing primary production.
2. Annual meeting, Fisheries and Wildlife Graduate Student Research Symposium, East Lansing, MI (spring 2015)
 - Oral presentation: Dennhardt, A., A. Duerr, D. Brandes, G. Merovich, Jr., and T. Katzner. 2015. Integrating Citizen-Science Data with Movement Models to Estimate Raptor Populations: A Case Study with Golden Eagles

in Eastern North America.

1. Attendee, “Big Ecological Questions, Diverse Data, and New Methods” Workshop, Berkeley, CA (fall 2014)
 - Oral presentation; Citation: Dennhardt, A., T. Katzner, A. Duerr, G. Merovich, and D. Brandes. 2014. Integrating Citizen-Science Data with Movement Models to Estimate Population Size of Migratory Raptors: A Case Study with Golden Eagles in Eastern North America.

WVU

15. Annual (joint) meeting, Wilson Ornithological Society and Association of Field Ornithologists, Newport, RI (spring 2014)
 - Oral presentation; Citation: Dennhardt, A., T. Katzner, A. Duerr, G. Merovich and D. Brandes. 2014. Modeling Migration and Citizen-Science Data to Estimate Golden Eagle (*Aquila chrysaetos canadensis*) Abundance in Eastern North America: Are Present Estimates Too High or Low?
14. Master’s thesis defense, Division of Forestry and Natural Resources, WVU, Morgantown, WV (spring 2014)
 - Oral presentation; Citation: Dennhardt, A., T. Katzner, A. Duerr, G. Merovich and D. Brandes. 2014. Modeling Migration and Citizen-Science Data to Estimate Golden Eagle Abundance in Eastern North America.
13. Davis College-Graduate Student Research Competition, WVU, Morgantown, WV (spring 2014)
 - Oral presentation; Citation: Dennhardt, A., T. Katzner, A. Duerr, G. Merovich and D. Brandes. 2014. Modeling Migration and Citizen-Science Data to Estimate Golden Eagle Abundance in Eastern North America.
12. Invited speaker, Department of Biology, Westminster College, New Wilmington, PA (spring 2014)
 - Oral presentation; Citation: Dennhardt, A., T. Katzner, A. Duerr, G. Merovich and D. Brandes. 2014. Modeling Migration and Citizen-Science Data to Estimate Golden Eagle Abundance in Eastern North America.
11. Annual meeting, I Worldwide Raptor Conference, San Carlos de Bariloche, Argentina (fall 2013)
 - Oral presentation; Citation: Dennhardt, A., T. Katzner, A. Duerr, G. Merovich and D. Brandes. 2013. Modeling Migration Counts to Estimate Abundance: a Population Estimate for Golden Eagles (*Aquila chrysaetos canadensis*) in eastern North America.
10. Invited speaker, October meeting, Mountaineer Audubon Society, Morgantown, WV (fall 2013)
 - Oral presentation; Citation: Dennhardt, A., T. Katzner, A. Duerr, G. Merovich and D. Brandes. 2013. Golden Eagles (*Aquila chrysaetos*) in eastern North America: natural history, knowledge gaps, and regional conservation priorities.
9. Invited speaker, August meeting, Highland County Bird Club, Monterey, VA (fall 2013)
 - Oral presentation; Citation: Dennhardt, A., T. Katzner, A. Duerr, G. Merovich and D. Brandes. 2013. Golden Eagles (*Aquila chrysaetos*) in eastern North America: natural history, knowledge gaps, and regional conservation priorities.
8. Annual meeting, Virginia Society for Ornithology, Leesburg, VA (spring 2013)
 - Oral presentation; Citation: Dennhardt, A., T. Katzner, A. Duerr, G. Merovich and D. Brandes. 2013. Modeling migratory flight routes of Golden Eagles (*Aquila chrysaetos*) in variable meteorological and topographic landscapes.
7. Davis College-Graduate Student Research Competition, Morgantown, WV (spring 2013)
 - Oral presentation; Citation: Dennhardt, A., T. Katzner, A. Duerr, G. Merovich and D. Brandes. 2013. Modeling migratory flight routes of Golden Eagles (*Aquila chrysaetos*) in variable meteorological and topographic landscapes.
6. Annual meeting, Wilson Ornithological Society, Williamsburg, VA (spring 2013)
 - Oral presentation; Citation: Dennhardt, A., T. Katzner, A. Duerr, G. Merovich and D. Brandes. 2013. Modeling migratory flight routes of raptors in variable meteorological and topographic landscapes.
5. September meeting, Mountaineer Audubon Society, Morgantown, WV (fall 2012)

- Oral presentation; Citation: Dennhardt, A., T. Katzner, A. Duerr, G. Merovich and D. Brandes. 2012. Modeling migration counts to estimate the size of the population of Golden Eagles (*Aquila chrysaetos*) in Eastern North America.
4. Annual meeting, Eastern Golden Eagle Working Group, Ste. Anne des Monts, Quebec (summer 2012)
 - Oral presentation; Citation: Dennhardt, A., T. Katzner, A. Duerr, G. Merovich and D. Brandes. 2012. Modeling migration counts to approximate abundance: a population estimate for Golden Eagles (*Aquila chrysaetos canadensis*) in eastern North America.
 3. Davis College-Graduate Student Research Competition, Morgantown, WV (spring 2012)
 - Oral presentation; Citation: Dennhardt, A. and S. Wakamiya. 2012. Effective dispersal in midwestern Peregrine Falcons (*Falco peregrinus*).
 2. Attendee, Annual meeting, Northeast Association of Fish and Wildlife Service Agencies (spring 2012)
 1. Attendee, Annual meeting, Raptor Research Foundation (fall 2011)

SIUC

4. Annual meeting, St. Louis Area Undergraduate Research Symposium, Makanda, IL (spring 2010)
 - Oral presentation; Citation: Dennhardt, A. 2010. Dispersal characteristics of an American raptor population: the peregrine falcon (*Falco peregrinus*) in the Midwestern United States.
3. Annual meeting, Undergraduate Research Forum, Carbondale, IL (spring 2008 and spring 2010)
 - Poster presentation; Citation: Dennhardt, A. and M. Eichholz. 2008. Ultraviolet radiation perception in nocturnal raptor species: recommendations for future studies.
 - Poster presentation; Citation: Dennhardt, A. and S. Wakamiya. 2010. Dispersal characteristics of an American raptor population: the peregrine falcon (*Falco peregrinus*) in the Midwestern United States.
2. Annual meeting, Posters on the Hill, Council for Undergraduate Research, Washington, DC (spring 2009)
 - Poster presentation; Citation: Dennhardt, A. and S. Wakamiya. 2009. Dispersal characteristics of an American raptor population: the peregrine falcon (*Falco peregrinus*) in the Midwestern United States.
1. Annual meeting, National Collegiate Honors Council, San Antonio, TX (fall 2009)
 - Poster presentation; Citation: Dennhardt, A. and S. Wakamiya. 2009. Dispersal characteristics of an American raptor population: the peregrine falcon (*Falco peregrinus*) in the Midwestern United States.

SERVICE RELATED ACTIVITIES

MSU

19. “Owl Prowl” outreach event, Delta WILD 4-H Club and MSU Department of Fisheries and Wildlife (spring 2019)
 - Program co-leader on a 2-hr evening walk to search for native owl species with 4-H coordinators, students, and their parents at Hawk Meadows Park, Lansing, MI.
18. Emerging Leader Program, Great Lakes Leadership Academy (spring 2018 - present)
 - Program participant in 3 week-long retreats throughout Michigan.
 - Learned and tested various skills and tools useful for leading others and focused on: personality and behavioral characteristics, psychological and emotional wellness, multicultural awareness and inclusion, stakeholder engagement, taking conversations from debate to dialogue, group decision making, general meeting management, and the art of leadership for the common good.
 - Graduate certificate in “Leadership for the Common Good” earned on October 25, 2018.
17. Learn to Hunt Wild Turkey Program, National Wild Turkey Federation (NWTF) and Michigan Department of Natural Resources (spring 2016 – present)
 - Peer mentor, recruited by Michigan NWTF R3 Coordinator, Steve Sharp.
 - Volunteered to mentor new hunters of diverse backgrounds (e.g., international students) in the sport of legally harvesting eastern wild turkeys at both the Barry County State Game Area and Pierce Cedar Creek Institute in Hastings, Michigan.

16. Graduate student – undergraduate student networking event, Office of Undergraduate Research (summer 2018)
 - Volunteered to meet with undergraduate students over lunch to answer their questions about enrolling in graduate school.
15. Workshop series, “How to analyze different kinds of ecological data,” Quantitative Ecology Reading Group (spring 2018)
 - Co-coordinator with fellow graduate students, Remington Moll, Herbert Kasozi, Jennifer Smith, and Steven Gray.
 - Workshops followed a common framework: two graduate students coordinated each workshop, and started with topical presentations for 30 minutes, then concluding with 60 minutes of attendee work with taught tools and real data in R Statistical Software and RStudio.
 - Topics: Principal Components and Coordinates Analysis (February 2018), Generalized Linear Models (April 2018), and Resource Selection Functions (April 2018); each of the 3 workshops were attended by 20 – 30 undergraduate and graduate students (including occasional faculty members) from departments such as Plant Biology, Entomology, Fisheries and Wildlife, Integrative Biology, and Ecology, Evolutionary Biology, and Behavior.
 - Workshop presentation: Kasozi, H. and A. Dennhardt. Principal Components Analysis and Principal Coordinates Analysis in R.
14. Judge for oral and poster presentations, Annual meeting, Ecology, Evolutionary Biology, and Behavior Graduate Student Research Symposium (spring 2017, 2018)
 - 2017: 3 oral presentations by program faculty.
 - 2018: 4 poster presentations by program graduate students.
13. 2018 Fisheries and Wildlife Departmental Spring Picnic Organizing Committee (spring 2018)
 - Fundraising committee chairman: helped raise \$400 toward supporting the Graduate Student Organization for the Department of Fisheries and Wildlife.
 - Organizing committee chairman: helped facilitate the picnic’s potluck (food and drinks), prize raffle, and pie throwing contest.
 - In honor of their donation to the symposium, our committee helped the local chapter of Pheasants Forever (no. 467) host their 2018 annual banquet and raise >\$50,000 toward their organization’s habitat conservation activities.
12. 2017 American Ornithological Society (AOS) and Society of Canadian Ornithologists (SCO) Joint Annual meeting (summer 2017)
 - Excursion coordinator.
 - Alongside fellow Ph.D. students, Andrew Carlson and Steve Roels, I helped organize the AOS-SCO softball game by setting up the registration for teams, reserving space at a local park to host the game, gaining necessary permits for using the space, and purchasing and distributing beverages for participants.
11. 2017 Fisheries and Wildlife Departmental Spring Picnic Organizing Committee, spring 2017.
 - Fundraising committee chairman: helped raise \$700 toward supporting the Graduate Student Organization for the Department of Fisheries and Wildlife.
 - Organizing committee chairman: helped facilitate the picnic’s potluck (food and drinks), prize raffle, and pie throwing contest.
 - In honor of their donation to the symposium, our committee helped the local chapter of Pheasants Forever (no. 467) host their 2017 annual banquet and raise >\$50,000 toward their organization’s habitat conservation activities.
10. 2017 Fisheries and Wildlife Graduate Student Research Symposium Organizing Committee (summer 2016 – spring 2017)
 - Fundraising committee chairman (2016): helped raise \$7,000 toward supporting symposium expenses.
 - Event photographer (2017).
 - Alongside my organizing committee co-chairwoman, Rebecca Cain, I helped organize all of the supporting documentation (e.g., chair responsibility descriptions, donor contact information archives, past donation request letters and sponsorship applications, event photos, etc.) on our group’s Google webpage in order to assist new (and subsequent) chairs toward leading future symposium committees and help make the group’s data archiving process more efficient (2016).
9. Professional and research mentorship of two undergraduate students, Audrey Boike and David Heit, Department of Fisheries and Wildlife (fall 2016 – summer 2018)

- Research co-supervisor alongside Dr. Dan Hayes.
 - Led 12 different data analysis workshops in R Statistical Software and RStudio in order to help Audrey and David learn how to analyze their ecological data.
 - Audrey and David independently approached me in fall 2016, asking about opportunities to work with me on my dissertation research. After meeting with them individually and learning more about their research interests and career goals, I decided to bring them together toward working on two different research projects, while collecting the same avian community data, in order to answer different research questions. In spring 2017, I helped them independently formulate their own research grant proposals, which I also helped them revise before they submitted grant applications to the Wilson Ornithological Society, American Ornithological Society, and MSU's Undergraduate Research Program in the College of Agriculture and Natural Resources (CANR). MSU CANR jointly awarded them \$2,000 in March 2017 toward completion of their summer 2017 fieldwork and subsequent data analysis and travel necessary for disseminating their research findings in 2018. In summer 2018, I helped Audrey and David conclude their work by submitting a technical report to our collaborating landowner on their research project, Ryan Postema at Chikaming Open Lands, Inc.
8. 4-H Great Lakes Natural Resources Camp, MSU Extension (spring – summer 2016)
 - Co-coordinator.
 - Served on the camp curriculum committee, alongside fellow Ph.D. student Kim Fake-Douglass and volunteer Kirsten Johnson, and helped formulate a week-long series of morning workshops for campers called, “Become the Ornithologist.” Across all of the workshops, we taught >50 (pre-teenaged) campers, and shared knowledge with them about the basic biology, mist-net capture, data processing and analysis, outdoor viewing and checklist recording and reporting, associated values, threats, and conservation of birds in North America, emphasizing Michigan wildlife. This activity satisfied my degree program's outreach requirement at MSU.
 7. Curriculum advisory committee, Department of Fisheries and Wildlife (spring – fall 2016)
 - Graduate student representative.
 - Served on the committee with Drs. Gerald Urquhart, Cheryl Murphy, and Michael Wagner as well as with fellow Ph.D. student, Rebecca Cain to develop a 2 – 3 credit hour graduate-level seminar course that focused on enriching natural resource scientists as analysts, communicators, facilitators, networkers, leaders, and career professionals of tomorrow.
 6. College of Agriculture and Natural Resources Alumni Association Golf Outing (spring 2016)
 - Volunteered to operate various golf outing competitions at particular course holes.
 5. MSU Quantitative Ecology Reading Group (spring 2015 – summer 2018)
 - Leading co-chair.
 - Fall 2016 – fall 2017: regularly provided advice and assistance to peers on applying tools in R Statistical Software via our group's weekly code-in workshops.
 4. 2016 Fisheries and Wildlife Departmental Spring Picnic Organizing Committee (spring 2016)
 - Fundraising committee chairman: helped raise \$400 toward supporting the Graduate Student Organization for the Department of Fisheries and Wildlife.
 - Organizing committee chairman: helped facilitate the picnic's potluck (food and drinks), prize raffle, and pie throwing contest.
 - In honor of their donation to the symposium, our committee helped the local chapter of Pheasants Forever (no. 467) host their 2016 annual banquet and raise >\$50,000 toward their organization's habitat conservation activities.
 3. 2016 Fisheries and Wildlife Graduate Student Research Symposium Organizing Committee (summer 2015 – spring 2016)
 - Leading co-chair: helped raise \$8,000 toward supporting symposium expenses.
 - Co-led supporting events comprising Undergraduate Week wherein our graduate students presented professional workshops on career building, getting graduate school appointments and technician jobs, formulating résumés, and how to analyze ecological data using R Statistical Software 3.2.3 and RStudio Desktop 0.99.887 to undergraduate students in the Department of Fisheries and Wildlife.
 - Undergraduate Week, evening no. 1: co-led a panel discussion on career building with local professionals from the U.S. Fish and Wildlife Service, Michigan Department of Natural Resources (e.g., Parks and Recreation, Wildlife Divisions), Ducks Unlimited, and The Nature Conservancy.

- Undergraduate Week, evening no. 2: co-led a panel discussion, with fellow graduate students from our department, on getting into and working in graduate school, finding and securing technician jobs, and formulating résumés.
 - Undergraduate Week, evening no. 3: co-led a panel discussion on conducting basic operations for ecological analyses using R Statistical Software 3.2.3 and RStudio Desktop 0.99.887.
2. 2015 Fisheries and Wildlife Departmental Spring Picnic Organizing Committee (spring 2015)
 - Fundraising committee chairman: helped raise \$600 toward supporting the Graduate Student Organization for the Department of Fisheries and Wildlife.
 - Organizing committee chairman: helped facilitate the picnic’s potluck (food and drinks), prize raffle, and pie throwing contest.
 1. 2015 Fisheries and Wildlife Graduate Student Research Symposium Organizing Committee (fall 2014 – spring 2015)
 - Fundraising committee chairman (2014): helped raise \$7,000 toward supporting symposium expenses.
 - Registration committee chairman (2015).
 - Participated in supporting events comprising Undergraduate Week wherein our graduate students presented professional workshops on career building, getting graduate school appointments and technician jobs, and formulating résumés to undergraduate students in the Department of Fisheries and Wildlife.
 - Undergraduate Week, evening no. 1: did not participate in the career building panel discussion.
 - Undergraduate Week, evening no. 2: participated in a panel discussion, with fellow graduate students from our department, on getting into and working in graduate school as well as finding and securing technician jobs.
 - Undergraduate Week, evening no. 3: participated in assisting undergraduates with their résumés in terms of their format, content, and structure among many other components.

WVU

2. Graduate Young Professionals of St. John University Parish (fall 2011 – summer 2014)
 - President (2012 – 2014).
 - Summer CSI (summers 2012 and 2013).
 - Taste of Africa Dinner (fall 2012): raised \$2,823.³¹ for ChildVoice International.
 - Irish Bash Fundraiser (spring 2012 and 2013): helped raise \$3,400.⁰⁰ for service trips to Jamaica.
 - Fall Elimination Dinner and Fundraiser (2013): helped raise \$2,317.⁶⁴ for Monongalia County Habitat for Humanity.
 - Evening dinner service (2013): donated ingredients, prepared meals, and served clients of the local humanitarian shelter, Bartlett House Inc.
 - Christian Religious Education instructor (fall 2013 – spring 2014): teaching 7th and 8th grade students about Catholic Christian ethics, beliefs, practices, and principles.
 - Christmas Toy Drive (2013): collected and donated 30+ toys/games to families at one of the local homeless shelters, Bartlett House, Morgantown, WV.
 - Morning breakfast service (2014): donated ingredients, prepared meals, and served clients of the local humanitarian shelter, Clarksburg Mission Inc.
 - Open Mic Night and Hydrate with Harmony Concert fundraisers (spring 2014): helped raise \$1,564.⁸² for Aqua Viva Inc. (www.aquavivawv.org).
1. Morgantown Migratory Bird Day, Avian Conservation Center of Appalachia (spring 2012)
 - Coordinated children’s activities related to migratory birds in North America, especially raptors.

SIUC

5. 2010 St. Louis Area Undergraduate Research Symposium (StLAURS) Planning Committee (summer 2009 – spring 2010)
 - Committee chairman (2010).
4. Saluki Volunteer Corps (fall 2006 – spring 2010)
 - Total hours volunteered for various service activities: 821.25.
3. Beta Theta Pi Fraternity (fall 2006 – spring 2008)

- Recruitment chair (2007).
 - Member-accountability chair (2007).
 - Academics chair (2008).
 - Ritual chair (2008).
2. Volunteer animal-caretaker, Free Again Wildlife Rehabilitation Center (fall 2007 – spring 2010)
 - Cleaned animal patient enclosures, repaired animal patient enclosures, and also worked with resident raptors, in preparation for upcoming educational programs.
 1. Newman Center Student Ministry Team (spring 2008 – fall 2008)
 - Community service chair (2008).
 - Social activities committee (2008).

PROFESSIONAL ORGANIZATIONS AND OTHER ACTIVITIES

MSU

14. Experience with baiting, trapping, handling, processing, and ear-tagging small mammals (e.g., *Peromyscus* spp.) in the Cleveland Metroparks of northern Ohio, alongside fellow Ph.D. student, Remington Moll (summer 2018)
13. Michigan Hawking Club (winter 2017 – present)
 - Volunteer at the annual Falconry Field Meet in Dewitt, Michigan (spring 2018, 2019).
 - Annual business meeting (spring 2019).
12. International Association for Great Lakes Research (summer 2017 – 2018)
11. National Wild Turkey Federation (spring 2016 – 2017)
 - Hunter-safety certified through their Learn to Hunt Wild Turkey Program in spring 2016.
10. Pheasants Forever (spring 2016 – 2017)
9. The Wildlife Society student membership (spring 2016 – present)
 - North Central Section (spring 2016 – present)
 - Biometrics Working Group (fall 2018 – present)
 - Student Development Working Group (spring 2018 – present)
 - Michigan Chapter of the Wildlife Society (spring 2017 – present)
8. Ecological Society of America student membership (spring 2016 – 2017)
 - Statistical Ecology, Student, and Theoretical Ecology Sections.
7. Michigan Chapter of Ducks Unlimited (spring 2015 – 2016)
6. MSU Quantitative Ecology Reading Group (summer 2015 – present)
5. Neotropical Raptor Network membership (fall 2013 – spring 2014)
4. Raptor Research Foundation student membership (spring 2013 – fall 2014)
3. Wilson Ornithological Society student membership (spring 2013 – fall 2014)
2. Experience with statistical analytics using ArcGIS Software, R Statistical Software, Statistical Package for the Social Sciences, and Statistical Analysis Software (fall 2006 – present)
 - Experience with the following versions: ArcGIS v. 9.2 – 10.5, R v. 2.14.2 – 3.5.1, SPSS v. 22 – 25, and SAS v. 9.3 – 9.5.
1. Experience with Visual C# programming in Microsoft Visual Studio 2010 (fall 2011 – 2014)

WVU

8. WVU Wildlife Society (fall 2011 – spring 2014)
7. WVU Wildlife and Fisheries Reading Group (fall 2011 – spring 2014)
6. Eastern Golden Eagle Working Group (fall 2011 – present)
 - Wings Across the Americas Award (2013), presented to the research team by the U.S. Forest Service. An annual award recognizing individuals and groups that provide outstanding contributions to international conservation of important bird species.
5. Appalachian Eagles website (spring 2012 – 2014)
 - Image processing: using Adobe Photoshop CS5.1 to process trail camera photos for Appalachian Eagles (<http://www.appalachaineagles.org>).
4. Experience with nocturnal surveys of *Caprimulgid* birds (e.g., whip-poor-wills) in southern West Virginia, alongside fellow Master's student, Christina Slover (summer 2012)
3. Experience with performing necropsies on 3 Black vultures at WVU, alongside fellow Master's student, Shannon Behmke (fall 2012)
2. Experience with surveying for raptors on migration (both spring and fall) at watch sites throughout West Virginia, Maryland, Pennsylvania, and Minnesota (fall 2011 – spring 2014)
 - Experience with supervising undergraduate volunteers on my project, which involved surveys for migratory raptors.
1. Experience with professional training for trapping raptors and harnessing raptors with transmitters (fall 2013) through a workshop at the First Worldwide Raptor Conference in Bariloche, Argentina—sponsored by the Early Career Raptor Researchers program of the Raptor Research Foundation.

SIUC

3. SIUC Leadership Council (fall 2006 – spring 2007)
2. SIUC Zoology Club (fall 2006 – spring 2010)
 - Extracurricular activities committee (2007 – 2008).
1. Alpha Lambda Delta National Honor Society (spring 2007 – 2010)
 - Community service committee (2007).

PROFESSIONAL REFERENCES*

1) Dr. Gary J. Roloff

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Relationship: Ph.D. major advisor

2) Dr. Steven J. Pierce

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Relationship: Statistical consulting supervisor

3) Dr. Todd E. Katzner

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 Forest and Rangeland Ecosystem Science Center
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Relationship: M.S. major advisor

4) Jenny Marek and Eric Morrisette

Deputy Field Supervisor and Senior Biologist
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Relationship: Directorate Fellowship co-supervisors

5) Dr. Kendra Spence Cheruvellil

Professor

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Relationship: Ph.D. graduate committee member

6) Dr. Adam E. Duerr

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Email: adamduerr@bloombiological.com

Relationship: M.S. graduate committee member

* Professional references are listed in priority order, and additional references are available upon request.