

CURRICULUM VITAE

Leigh Anne Harden, Ph.D.

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EDUCATION

- 2013 Ph.D. Marine Biology. University of North Carolina Wilmington, Wilmington, NC.
Adviser: Dr. Amanda Southwood Williard
- 2007 B.S. Biology. Davidson College, Davidson, NC.
- 2005 James Cook University, Queensland, Australia. July – Dec.

PROFESSIONAL AND ACADEMIC APPOINTMENTS

- 2022-present **Associate Professor of Biology**, Department of Biological Sciences, Benedictine University, Lisle, IL.
- 2016-2022 **Assistant Professor of Biology**, Department of Biological Sciences, Benedictine University, Lisle, IL.
- 2015-2016 **Assistant Term Professor of Biology**, Department of Biological Sciences, Benedictine University, Lisle, IL.
- 2014-2015 **Assistant Professor of Biology & Postdoctoral Research Associate**, Department of Biology, Loyola University Chicago, Chicago, IL. Adviser: Dr. Joseph Milanovich.
- 2014 **Adjunct Assistant Professor of Biology & Postdoctoral Fellow**, Davidson College, Davidson, NC.

INSTRUCTIONAL ACTIVITY

Benedictine University

BIOL 1197: Principles of Organismal Biology

BIOL 1180: Ecology of a Changing Planet

BIOL 2205: Environmental Science

BIOL 3258: Human Physiology

BIOL 3259: Human Physiology Lab

BIOL 4363: Ecology

BIOL 4364: Ecology Lab

BIOL 4393: Great Ideas in Biology and Medicine

BIOL 3389: Undergraduate Student Research

BIOL 4303: Conservation Biology and Biodiversity

BIOL 2155/CORE 3000B1 KYST Ecology and Culture of Asia (co-instructor at North Park University)

NTSC 2200: Learning Assistant Pedagogy Seminar

Loyola University Chicago

BIOL 265: Ecology

BIOL 111 & 112: General Biology Lab – Biodiversity

Davidson College

BIOL 112: Organisms, Evolution, and Ecosystems Lecture & Lab

Group Investigations: Research on Southeastern Amphibians & Reptiles (Co-taught)

University of North Carolina Wilmington

BIO 240 & 241: Human Anatomy & Physiology two semester Lab

MENTORSHIP SINCE FALL 2015

Undergraduates (Benedictine University):

- **Keith McGee.** 2023 – Present
 - College of DuPage student. The Promotion of Underrepresented Minorities in Academic STEM (PUMA-STEM) summer research student in 2023
 - Project title: Spatiotemporal ecology of common snapping turtles (*Chelydra serpentina*) inhabiting an suburban college campus
- **Madeline Russelburg.** 2022 – Present
 - BenU Natural Sciences Summer Research Program (NSSRP) student in 2023
 - Project title: Validating the Use of Bacterial Killing Assays to Investigate Immune Health of Spotted Turtles Living in Contaminated Environments
- **Rachel Cepolski.** 2022 – Present
 - BenU Natural Sciences Summer Research Program (NSSRP) student in 2022 and 2023
 - Project title: Investigating the Health of Lake St. Benedict via Biotic and Abiotic Surveys
- **Nick Musick.** 2021 – 2023
 - BenU Natural Sciences Summer Research Program (NSSRP) student in 2021 and 2022
 - Project titles: Exploring the health of Lake St. Benedict via water chemistry and turtle population surveys; Rebounding Blanding's: Conservation-Based Outreach and Education
 - Won Student Environmental Educator of the Year in 2023 by Environmental Education Association of Illinois
- **Samreen Hussain.** 2022 – 2023
 - Independent Research Student 2022 – 2023
 - Project title: Prevalence of Haemogregarine Parasites in Freshwater Painted Turtles Inhabiting Lake St. Benedict.
 - Won Benedictine University Student Service Award in 2023
- **Yumah Khan.** 2022 – 2023
 - Independent Research Student 2022 – 2023
 - Project title: Prevalence of Haemogregarine Parasites in Freshwater Painted Turtles Inhabiting Lake St. Benedict.
- **Aymun Khan.** 2022 – 2023
 - Independent Research Student 2022 – 2023
 - Project title: Macroinvertebrate Ecology Sampling and Surveying Project
 - Won Benedictine University Student Hallmark Award in 2023
- **Dannah Medina.** 2022
 - The Promotion of Underrepresented Minorities in Academic STEM (PUMA-STEM) summer research student in 2022
 - Project title: Investigating the Use of Flame Atomic Absorption Spectrometry to Measure Trace Metals in Freshwater Turtle Blood
- **Allison Dickman.** 2020 – 2021
 - BenU Natural Sciences Summer Research Program (NSSRP) student in 2020
 - Project title: Aquatic behavior of female diamondback terrapins (*Malaclemys terrapin*) in North Carolina salt marshes. *In prep.*

- 2021 John Mickus Award winner, given to an undergraduate student who has demonstrated innovative inquiry in or outside the curriculum.
- **Elena Garza.** 2019 – 2020
 - BenU Natural Sciences Summer Research Program (NSSRP) student in 2019
 - Project title: Adapting a Commercially Available Enzyme Immunoassay to Measure Corticosterone in Turtle Serum.
 - Applied for Chicago Herpetological Society research grant (not funded): Adapting a Commercially-Available Enzyme Immunoassay to Measure Corticosterone in Freshwater Turtle Serum
 - 2021 Rising Stars Award winner, given to students who are not only academically outstanding, but have accomplishments and characteristics (research, leadership or community service) that elevate them to become leaders of change.
- **Rebecca Weber.** 2018 – 2020
 - BenU Natural Sciences Summer Research Program (NSSRP) student in 2018 and 2019
 - Publication citation: *Cann, A., Weber, R., Harden, L.A., Thompson, D., Nadolski, J., Mattes, J., Karwowska, A., Shahjahan, S., Milanovich, J. in review. Physiological Health and Survival of an Augmented Blanding's Turtle (Emydoidea blandingii) Population. Physiol Biochem Zool.*
 - Nominated as Benedictine University's 2019 Lincoln Academy of Illinois Student Laureate.
 - 2020 Procopian Award winner, the highest honor at BenU, for her consistent outstanding curricular and extra-curricular activities.
- **Alexandra Karwowska.** 2017 – 2020
 - BenU Natural Sciences Summer Research Program (NSSRP) student in 2017 and 2018
 - Project title: comparing the hematological health of juvenile Blanding's turtles across captive rearing sites: implications for improving captive-rearing protocols. (two other students: **Rama Alzein, Yasmeen Ahmad**, are assisting with this project).
 - Publication title: *Cann, A., Weber, R., Harden, L.A., Thompson, D., Nadolski, J., Mattes, J., Karwowska, A., Shahjahan, S., Milanovich, J. in review. Physiological Health and Survival of an Augmented Blanding's Turtle (Emydoidea blandingii) Population. Physiol Biochem Zool.*
 - 2020 Thomas J. Dyba Leadership Award winner for her outstanding ability to initiate and organize worthwhile activities, to encourage and direct the cooperative efforts of others and to command respect as a campus leader.
- **Macy Andlinger.** 2018 – 2020
 - BenU Natural Sciences Summer Research Program (NSSRP) student in 2018.
 - Project title: Utilizing Capture-Mark-Recapture Methods to Study Lake St. Benedict's Freshwater Turtle Population.
- **Elizabeth Kvitek.** 2019
 - BenU Natural Sciences Summer Research Program (NSSRP) student in 2019
 - Project description: Developing a problem-based learning discovery box all about Blanding's turtle biology and conservation using real data.
- **Tim Benjamin.** 2017 – 2018
 - BenU Natural Sciences Summer Research Program (NSSRP) student in 2017
 - Publication citation: *Benjamin, T., Brasso, R., Midway, S., Thompson, D., Harden, L.A. 2018. Using Non-destructive Techniques to Measure Mercury (Hg) Concentrations in Gravid Blanding's Turtles (Emydoidea blandingii) in Northeastern Illinois. Bulletin of Environmental Contamination and Toxicology <https://doi.org/10.1007/s00128-018-2407-4>.*

- In review publication citation: Cann, A., Muñoz. A., Lentini, I., Benjamin, T., Thompson, D. Harden, L.A., and Milanovich, J.R. Spatial and thermal ecology of juvenile head-started Blanding's Turtles. *in review* at Wildlife Biology.
- **Sumaiya Shahjahan.** 2016 – 2018
 - BenU Natural Sciences Summer Research Program (NSSRP) student in 2017
 - Publication citation: *Cann, A., Weber, R., Harden, L.A., Thompson, D., Nadolski, J., Mattes, J., Karwowska, A., Shahjahan, S., Milanovich, J. in review. Physiological Health and Survival of an Augmented Blanding's Turtle (Emydoidea blandingii) Population. Physiol Biochem Zool.*
- **Summer 2017 BEST Program students.** 2017 – 2018
 - Project description: Creating a Blanding's Turtle Educational Discovery Box as part of the Jurica Suchy Nature Museum Discovery Box Loan Program at Benedictine University.
- **Jessica Nelson.** 2015 – 2016
 - Independent Research Student 2015 – 2016
 - Project Title: Do Variations in Behavior & Environmental Temperatures Affect Blood Chemistry of overwintering Diamondback Terrapins?

Graduate students:

- **Armand Cann.** 2016 – 2021
 - MS Student @ Loyola University Chicago.
 - I was his MS Committee Member and co-adviser to MS Thesis: Behavioral and physiological ecology of augmented juvenile Blanding's Turtles.
 - Publication citation: *Cann, A., Weber, R., Harden, L.A., Thompson, D., Nadolski, J., Mattes, J., Karwowska, A., Shahjahan, S., Milanovich, J. in review. Physiological Health and Survival of an Augmented Blanding's Turtle (Emydoidea blandingii) Population. Physiol Biochem Zool.*
 - In review publication citation: Cann, A., Muñoz. A., Lentini, I., Benjamin, T., Thompson, D. Harden, L.A., and Milanovich, J.R. Spatial and thermal ecology of juvenile head-started Blanding's Turtles. *in review* at Wildlife Biology.
- **Jessica Lindberg.** 2021 – Present
 - MS Student @ Loyola University Chicago.
 - I am her MS Committee Member and co-adviser to MS Project: Physiological and spatial ecology of endangered spotted turtles (*Clemmys guttata*) in Indiana

PUBLICATIONS "*" indicates undergraduate author, "+" indicates graduate student author.

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| 2023 | Struecker, B.P., Muñoz. A.*, Warcholek, S.A.*, Harden L.A. , Milanovich, J.R. Home Ranges of Ornate Box Turtles in Remnant Prairies in North-central Illinois. Reptiles and Amphibians. https://doi.org/10.17161/randa.v30i1.17963 |
| 2023 | Cann, A. +, Muñoz. A.*, Lentini, I.*, Benjamin, T.*, Thompson, D., Harden, L.A. , and Milanovich, J.R. Spatial and thermal ecology of juvenile head-started Blanding's Turtles. Wildlife Biology. doi: 10.1002/wlb3.01074 |
| 2021 | Cann, A.+, Weber, R.*, Harden, L.A. , Thompson, D., Nadolski, J., Mattes, J.*, Karwowska, A.*, Shahjahan, S.*, Milanovich, J. Physiological Health and Survival of Captive-reared and Released Juvenile Blanding's Turtles. <i>Physiological and Biochemical Zoology</i> 94: 411–428. |

- 2021 **Harden, L.A.**, Midway, S. R., and Gibbons, J. W. Terrapin Station: Individual, sex, and site factors related to turtle growth variability. *Journal of Herpetology* 55: 411–421.
- 2019 Southwood Williard, A., **Harden, L.A.**, Jones, T.T., and Midway, S.R. (2019). Effects of temperature and salinity on body fluid dynamics and metabolism in the estuarine diamondback terrapin (*Malaclemys terrapin*). *J Exp Biol* 222, jeb202390.
- 2018 **Harden, L.A.**, Williard, A.S. Osmoregulation of Diamond-backed Terrapins (*Malaclemys terrapin*), In: W. M. Roosenburg and V. S. Kennedy, editors. *Ecology and Conservation of the Diamond-backed Terrapin*. Johns Hopkins University Press, Baltimore, MD. p. 111-125.
- 2018 Benjamin, T.*, Brasso, R., Midway, S., Thompson, D., **Harden, L.A.** 2018. Using Non-destructive Techniques to Measure Mercury (Hg) Concentrations in Gravid Blanding’s Turtles (*Emydoidea blandingii*) in Northeastern Illinois. *Bulletin of Environmental Contamination and Toxicology* <https://doi.org/10.1007/s00128-018-2407-4>.
- 2018 **Harden, L.A.**, J. Fernandez*, J.R. Milanovich, B.P. Struecker⁺, S.R. Midway. 2018. Blood biochemical reference intervals for wild ornate box turtles (*Terrapene ornata*) during the active Season. *Journal of Wildlife Diseases*. <https://doi.org/10.7589/2017-09-222>
- 2017 Milanovich, J.R., Struecker, B.P.⁺, Warcholek, S.A.* , **Harden L.A.** Thermal environment and microhabitat of ornate box turtle hibernacula. *Wildlife Biology* 2017: wlb.00295. DOI: 10.2981/wlb.00295
- 2015 Chase, F.W.*, Hardie, B.E.*, Kern, M.M., Pittman, S.E., **Harden, L.A.**, Dorcas, M.E. 2015. Evaluation of two individual identification techniques for spotted salamanders (*Ambystoma maculatum*). *Herpetological Review* 46, 192-196.
- 2015 **Harden, L.A.**, Midway, S.R., Williard, A.S. 2015. The blood biochemistry of overwintering diamondback terrapins (*Malaclemys terrapin*). *Journal of Experimental Marine Biology and Ecology* 466, 34-41.
- 2014 **Harden, L.A.**, Duernberger, K.A., Jones, T.T., Williard, A.S. Total body water and water turnover rates in the estuarine diamondback terrapin (*Malaclemys terrapin*) during the transition from dormancy to activity. 2014. *Journal of Experimental Biology* 217, 4406-4413.
- 2014 Strickland, J.C.*, Bahram, C.H.*, **Harden, L.A.**, Pittman, S.E., Kern, M.M., Dorcas, M.E. Life-history costs of reproductive behaviors in a wetland-breeding amphibian. *Journal of Freshwater Ecology*. DOI: 10.1080/02705060.2014.982725.
- 2014 Akins, C.*, Ruder, C.D.*, Price, S.J., **Harden, L.A.**, Gibbons, J.W., Dorcas, M.E. 2014. Factors affecting temperature variation and habitat use in free-ranging diamondback terrapins. *Journal of Thermal Biology* 44, 63-69.
- 2012 **Harden, L.A.** and Southwood Williard, A. 2012. Using spatial and behavioral data to evaluate the seasonal bycatch risk of diamondback terrapins (*Malaclemys terrapin*) in crab pots. *Marine Ecology Progress Series* 467, 207-217.
- 2011 Southwood Williard, A. and **Harden, L.A.** 2011. Seasonal changes in thermal environment and metabolic enzyme activity in the diamondback terrapin (*Malaclemys terrapin*). *Comparative Biochemistry and Physiology A – Molecular and Integrative Physiology* 158, 477-484.
- 2009 **Harden, L.A.**, S.E. Pittman, J.W. Gibbons, and M.E. Dorcas. 2009. Development of a rapid assessment technique to monitor diamondback terrapin (*Malaclemys terrapin*) populations using head-count surveys. *Applied Herpetology* 6, 237-245.

- 2009 **Harden, L.A.**, S.J. Price, and M.E. Dorcas. 2009. Terrestrial activity and habitat selection of Eastern mud turtles (*Kinosternon subrubrum*) in a fragmented landscape: Implications for habitat management of golf courses and other suburban environments. *Copeia* 1, 78-84.
- 2008 **Harden, L.A.** and M.E. Dorcas. 2008. Using thermal biology to investigate habitat use and activity of mud turtles (*Kinosternon subrubrum*) on a golf course, p. 321-323. *In* R. E. Jung and J. C. Mitchell (eds.), *Urban Herpetology*. Herpetological Conservation Vol. 3, Society for the Study of Amphibians and Reptiles. Salt Lake City, UT.
- 2007 **Harden, L.A.**, N.A. DiLuzio, M.E. Dorcas, and J.W. Gibbons. 2007. The spatial ecology and thermal ecology of diamondback terrapins (*Malaclemys terrapin*) in a South Carolina salt marsh. *Journal of North Carolina Academy of Science* 123, 154-162.

FUNDED PROPOSALS

- 2023 *E.C.O. Field Pack Project*. Environmental Education Association of Illinois' mini-grant. Co-PI with K. Tumminello, Director of Jurica Suchy Nature Museum. \$350.
- 2022 *NSF ADVANCE Catalyst: Evaluation and Assessment of Gender Leadership Equity and Support*. National Science Foundation. Co-PI with T. Perez Morales, J. Sarathy, C. Mascarenhas, J. Nadolski, with PI L. Smith. \$300,000.
- 2021 *Examining the habitat use, home range, hibernacula, nesting, and thermal ecology of spotted turtles (Clemmys guttata) in and adjacent to Northern Indiana Public Service Company Property in Northwestern Indiana*. Northern Indiana Public Service Company. Co-PI with PI J. Milanovich. \$30,000.
- 2022 *Macroinvertebrate Ecology Sampling & Surveying Project (MESS Project)*. Environmental Education Association of Illinois' mini-grant. Co-PI with K. Tumminello, Director of Jurica Suchy Nature Museum. \$350.
- 2020 *Indiana Department of Natural Resources Division of Fish and Wildlife*. Survey for copperbelly water snakes (*Nerodia erythrogaster neglecta*) in northern Indiana. PI J. Milanovich and B. Struecker. \$80,000. 2021-2022.
- 2018 *Rebounding Blanding's: Conservation-Based Outreach and Education*. Chicago Herpetological Society. co-PI K. Tumminello. \$500.
- 2014 *Carolina Herp Atlas*. Riverbanks Conservation Support Fund. Riverbanks Zoo & Garden, Columbia South Carolina. co-PI M. Dorcas. \$5000.
- 2014 *Testing the Utility of Environmental DNA (eDNA) for determining the presence of Bog Turtles (Glyptemys mhlenbergii)*. North Carolina Wildlife Resources Commission. co-PI M. Dorcas. \$9,981.
- 2012 *Seasonal variation in osmotic and metabolic status of diamondback terrapins*. North Carolina Herpetological Society Grant in Herpetology. \$360.
- 2012 *Assessment of diamondback terrapin presence and abundance in Bogue Sound, NC*. North Carolina Sea Grant. co-PIs A.S. Williard, W. Cluse, J. Wolfe. \$21,882.
- 2010 *Seasonal changes in physiology and behavior of the estuarine diamondback terrapin*. National Science Foundation Graduate Research Fellowship. 3-year graduate stipend.
- 2010 *Using postcard surveys to investigate potential interactions between blue crab fisheries and diamondback terrapins in coastal North Carolina*. North Carolina Sea Grant Minigrant. co-PI A. S. Williard. \$800.
- 2010 *Seasonal variation of behavior, ecology and physiology of diamondback terrapins (Malaclemys terrapin)*. Sigma Xi Grant-in-Aid of Research. \$996.

- 2010 *Seasonal variation of behavior, ecology and physiology of diamondback terrapins (Malaclemys terrapin) on Bald Head Island, North Carolina.* Diamondback Terrapin Working Group Research Grant. \$655.
- 2009 *Seasonal Changes of Diamondback Terrapin (Malaclemys terrapin) Movement and Physiology in a Southeastern North Carolina Salt Marsh.* North Carolina Academy of Science Robert R. Bryden Graduate Student Research Grant. \$1,000.
- 2006 *Terrestrial Activity of Eastern Mud Turtles (Kinosternon subrubrum) on Golf Courses: An Investigation of Habitat Selection.* North Carolina Herpetological Society Grant in Herpetology. \$600.
- 2006 *Terrestrial Activity of Eastern Mud Turtles (Kinosternon subrubrum) on Golf Courses: An Investigation of Habitat Selection.* Davidson College Biology Department. \$450.

AWARDS AND FELLOWSHIPS

- 2021 Benedictine University Research Award – \$1000
- 2019 Dean’s Award for Research – College of Science.
- 2011 *Using a spatially-explicit predator-prey model to investigate bycatch risk of terrapins in crab pots.* International Sea Turtle Symposium Best Student Poster Presentation in the Threats category. \$500.
- 2010 *Seasonal changes in physiology and behavior of the estuarine diamondback terrapin.* National Science Foundation Graduate Research Fellowship. Three-year graduate stipend.
- 2010 Nominated by University of North Carolina Wilmington and top-25 finalist for the K. Patricia Cross Future Leaders Award.
- 2010 University of North Carolina Wilmington Graduate Student Association award for best graduate student poster. \$100.
- 2009 Judith C. Bryan Holden Beach Turtle Watch Fellowship in Marine Biology. \$5000.
- 2009 *Diamondback terrapin (Malaclemys terrapin) habitat utilization in a North Carolina salt marsh: assessment of overlap with blue crab fisheries.* American Society of Ichthyologists & Herpetologists Storer Award for best student herpetology poster. \$300.
- 2009-2012 University of North Carolina Wilmington travel grants (10). (UNCW BioGSA, UNCW Graduate School, UNCW GSA).
- 2007 Sigma Xi Celebration of Undergraduate Research Award. Davidson College.

SELECTED PROFESSIONAL CONFERENCE ORAL PRESENTATIONS

- 2019 *Osmoregulation in the Diamondback Terrapin: Behavioral vs. Physiological Strategies.* Co-author and presenter Amanda Southwood Williard, with Leigh Anne Harden, T. Todd Jones, Steve Midway. Eighth International Congress of Comparative Biochemistry and Physiology Ottawa, Canada.
- 2016 *A Look Underground at the Ornate Box Turtle: Hibernation Thermal Ecology and Microhabitat of Hibernacula in North-central Illinois.* Co-author Joseph R. Milanovich, Leigh Anne Harden, Stanislaw Warcholek, Brock P. Struecker. American Society for Ichthyologists and Herpetologists. New Orleans, LA.
- 2016 *Seasonal Blood Chemistry of Ornate Box Turtles in Restored Prairies of North-central Illinois.* Co-author Joseph R. Milanovich, Leigh Anne Harden, Jennifer Fernandez, Brock P. Struecker. The 2016 Box Turtle Conservation Workshop. Urbana, IL.

- 2014 *Seasonal variation in body fluid composition and dynamics of diamondback terrapins.* Joint Meeting of Ichthyologists and Herpetologists. Chattanooga, TN.
- 2013 *Variation in osmotic and metabolic status of overwintering diamondback terrapins (Malaclemys terrapin).* Diamondback Terrapin Working Group. Seabrook, SC.
- 2013 *Variation in osmotic and metabolic status of overwintering diamondback terrapins (Malaclemys terrapin).* Society for Integrative and Comparative Biology. San Francisco, CA.
- 2012 *Biology and conservation of diamondback terrapins in North Carolina: implications for crab fisheries interactions.* Annual North Carolina Sea Turtle Meeting. Swansboro, NC.
- 2012 *Seasonal ecology of diamondback terrapins in southeastern North Carolina: implications for interactions with the blue crab fishery.* Society for Integrative and Comparative Biology. Charleston, SC.
- 2011 *Using a spatially-explicit predator-prey model to investigate bycatch risk of terrapins in crab pots.* North Carolina Herpetological Society Fall Meeting. Raleigh, NC.
- 2010 *Seasonal changes in thermal environment and metabolic enzyme activity in the diamondback terrapin.* Diamondback Terrapin Working Group Workshop. Chauvin, LA.
- 2009 *Seasonal changes in diamondback terrapin (Malaclemys terrapin) habitat use and activity in southeastern North Carolina.* Southeast Diamondback Terrapin Working Group Workshop. Wilmington, NC.
- 2009 *Conservation of diamondback terrapins: What do we know, not know, and need to know?* Joint Meeting of Ichthyologists and Herpetologists. Portland, OR. (Presented on behalf of Dr. Michael Dorcas and Dr. Whit Gibbons).
- 2009 *Diamondback terrapin habitat utilization in NC salt marsh: Overlap with crab fisheries.* North Carolina Sea Grant Fisheries Forum. New Bern, NC.
- 2007 *Terrestrial activity and habitat selection of eastern mud turtles (Kinosternon subrubrum) inhabiting golf course ponds.* Joint Meeting of Ichthyologists and Herpetologists. St. Louis, MO.
- 2006 *Keeping on Par with Wildlife: Investigations of Turtle Populations Inhabiting Golf Courses.* North Carolina Herpetological Society Fall Meeting. Raleigh, NC.

SELECTED STUDENT PRESENTATIONS "*" indicates student won an award for presentation

- 2023 **Poster.** *Validating the Use of Bacterial Killing Assays to Investigate Immune Health of Spotted Turtles Living in Contaminated Environments.* Undergraduate Research, Scholarship, and Arts (URSA) symposium. Benedictine University, Lisle, IL. **Students:** Madeline Russelburg.
- 2023 **Poster.** *Prevalence of Haemogregarine Parasites in Freshwater Painted Turtles Inhabiting Lake St. Benedict.* Undergraduate Research, Scholarship, and Arts (URSA) symposium. Benedictine University, Lisle, IL. **Students:** Yumnah Khan and Samreen Hussain.
- 2023 **Poster.** *Rebounding Blanding's: Conservation-Based Outreach and Education.* Environmental Education Association of Illinois Conference. Moline IL. **Students:** Nick Musick
- 2023 **Poster.** *Macroinvertebrate Ecology Sampling and Surveying (M.E.S.S.) Project.* Environmental Education Association of Illinois Conference. Moline IL. **Students:** Aymun Khan and Rachel Cepolski.

- 2023 **Poster.** *Physiological Effects of Heavy Metals in Two Populations of Spotted Turtles (Clemmys guttata) in Northwest Indiana.* Wild Things Conference, Chicago, IL. **Students:** Jessica Lindberg, Marlen Terrazas, Haydn Notario, Trang Nguyen, Rebecca Weber
- 2022 **Poster.** *Investigating the Use of Flame Atomic Absorption Spectrometry to Measure Trace Metals in Freshwater Turtle Blood.* Louis Stokes Midwest Regional Center of Excellence (LSMRCE) Symposium. Schaumburg, IL. **Student:** Dannah Medina.
- 2022 **Poster.** *Investigating the Use of Flame Atomic Absorption Spectrometry to Measure Trace Metals in Freshwater Turtle Blood.* Promotion of Underrepresented Minorities in Academic STEM (PUMA-STEM) Symposium. Elmhurst University, Elmhurst, IL. **Student:** Dannah Medina.
- 2022 **Poster.** *Lake St. Benedict Ecological Evaluation.* Undergraduate Research, Scholarship, and Arts (URSA) symposium. Benedictine University, Lisle, IL. **Students:** Nick Musick, Aymun Khan.
- 2022 **Poster.** *Investigating the Health of Lake St. Benedict via Biotic and Abiotic Surveys.* Natural Sciences Summer Research Program. **Students:** Nick Musick. Rachel Cepolski.
- 2021 **Poster.** *Exploring the health of Lake St. Benedict via water chemistry and turtle population surveys.* Natural Sciences Summer Research Program. **Student:** Nick Musick.
- 2021 **Oral.** *Seasonal variation in aquatic behavior of female diamondback terrapins (Malaclemys terrapin).* Undergraduate Research, Scholarship, and Arts (URSA) symposium. Benedictine University, Lisle, IL. **Student:** Allison Dickman.
- 2020 ***Oral.** *Seasonal variation in aquatic behavior of female diamondback terrapins (Malaclemys terrapin).* Natural Sciences Summer Research Program. **Student:** Allison Dickman.
- 2019 **Poster.** *Adapting a Commercially Available Enzyme Immunoassay to Measure Corticosterone in Turtle Serum.* Louis Stokes Midwest Regional Center of Excellence conference, Indianapolis, IN. **Student:** Elena Garza.
- 2019 **Poster.** *A Collaborative Effort to Assess the Hematological Health of Augmented Blanding's Turtle (Emydoidea blandingii) Populations.* Joint Meeting of Ichthyologists and Herpetologists, Snowbird, UT. **Students:** Rebecca Weber, Armand Cann.
- 2019 ***Oral.** *A collaborative approach to conserving Blanding's turtle (Emydoidea blandingii) populations in Chicagoland.* Natural Sciences Summer Research Program. **Students:** Rebecca Weber and Elizabeth Kvitck.
- 2019 **Poster.** *Utilizing Capture-Mark-Recapture Methods to Study Lake St. Benedict's Freshwater Turtle Population.* Associated Colleges of the Chicago Area (ACCA) Student Scholarship Symposium, Benedictine University, Lisle, IL. **Students:** Macy Andlinger, Rebecca Weber, Alexandra Karwowska, Elizabeth Kvitck.
- 2018 ***Oral.** *Utilizing Capture-Mark-Recapture Methods to Study Lake St. Benedict's Freshwater Turtle Population.* Natural Sciences Summer Research Program. **Students:** Rebecca Weber and Macy Andlinger.
- 2018 **Poster.** *Using a non-destructive technique to measure mercury (Hg) concentrations in endangered, adult Blanding's turtles (Emydoidea blandingii) in northeastern Illinois.* Midwest Fish and Wildlife Conference, Milwaukee, WI. **Student:** Timothy Benjamin.
- 2018 **Oral.** *Home Ranges of Captive-Reared, Recently-Released Juvenile Blanding's Turtles (Emydoidea blandingii).* Midwest Fish and Wildlife Conference, Milwaukee, WI. **Student:** Armand Cann.

- 2017 **Oral.** *Using a non-destructive technique to measure mercury (Hg) concentrations in endangered, adult Blanding's turtles (Emydoidea blandingii) in northeastern Illinois.* Natural Sciences Summer Research Program. **Student:** Timothy Benjamin.
- 2017 **Poster.** *Home Ranges of Captive-Reared, Recently-Released Juvenile Blanding's Turtles (Emydoidea blandingii).* Annual Meeting of the Society for Freshwater Science, Raleigh, NC. **Student:** Andrés Muñoz.
- 2017 **Poster.** *Examining the Ontogenetic Physiological Health of Captive-Reared and Released Juvenile Blanding's Turtles (Emydoidea blandingii).* Annual Meeting of the Society for Freshwater Science, Raleigh, NC. **Student:** Armand Cann.
- 2017-2019 ***Poster.** *Hematological health and immune response of captive-reared, re-released juvenile Blanding's turtles (Emydoidea blandingii).* Associated Colleges of the Chicago Area (ACCA) Student Scholarship Symposium, Benedictine University, Lisle, IL. **Students:** Rebecca Weber, Sumaiya Shahjahan, Alexandra Karwowska.
- 2016 **Poster.** *Seasonal Blood Chemistry of Ornate Box Turtles in Restored Prairies of North-central Illinois.* Co-authors: American Society for Ichthyologists and Herpetologists. New Orleans, LA. **Student:** Jennifer Fernandez.
- 2016 **Poster.** *Do Variations in Behavior & Environmental Temperatures Affect Blood Chemistry of overwintering Diamondback Terrapins?* Undergraduate Research, Scholarship, and Arts (URSA) symposium. Benedictine University, Lisle, IL. **Student:** Jessica Nelson.

INVITED GUEST LECTURES AT ACADEMIC INSTITUTIONS

- 2022 *The Impact of the Learning Assistant Program on faculty, students, and LAs.* With Tiara Perez Morales. Science and Sociability Seminar, Benedictine University, Lisle, IL.
- 2021 *Diamonds in the Rough: 15 years of terrapin physiology, ecology, and conservation.* Louisiana State University College of the Coast & Environment., Baton Rouge, LA.
- 2020 *A collaborative approach to conserving Blanding's turtle (Emydoidea blandingii) populations in Chicagoland.* Illinois Institute of Technology Biology Colloquium series, IL.
- 2020 *Shellebrating Student Slough-ths!* Faculty Colloquium, Benedictine University, Lisle, IL.
- 2017 *The Functional Ecology of Endangered Turtles.* Science and Sociability Seminar, Benedictine University, Lisle, IL.
- 2016 *Behavioral and physiological ecology of reptiles.* Associated Colleges of the Chicago Area (ACCA) Student Seminar Fall 2016, Benedictine University, Lisle, IL.
- 2015 *Biology and conservation of diamondback terrapins: implications for crab fisheries interactions.* Guest virtual speaker, Coastal Carolina University, Lisle, IL.
- 2015 *Biology and conservation of turtles.* Guest virtual lecture to post-graduate and graduate students of Zoology, Microbiology and Biochemistry at Auxilium College, an all-Women's College in the Vellore District of India. Department Head & Associate Professor: Dr. Mary Josephine Rani.

ADDITIONAL TEACHING ACTIVITIES AND INVITED PUBLIC SEMINARS

- 2022, 2023 *Aquatic Macroinvertebrates Exploration.* Morton Arboretum's Nature Play for All education event, Lisle IL.

- 2018- 2022 *Life in a Pond: The Science of Turtles*. Jurica Suchy Nature Museum community outreach event held at Benedictine University, Lisle, IL. Sep. 2018, 2019, 2022.
- 2020 *Herps in a Changing World*. Hickory Knolls Discovery Center Series: Learn from the Experts. Sep. 2020.
- 2019 *How is Climate Change affecting Herpetofauna?* Chicago Wilderness Climate Clinic, continuing education event held at Benedictine University, Lisle, IL, Nov. 2019.
- 2017-2019 *Career Booth at the Science Career in Search of Women Conference*. Argonne National Laboratory, Argonne, IL. April 2017-present.
- 2016 Women in Science Career Presentation to the GEMS club at Lane Tech College Prep, Chicago IL, Oct. 2016.
- 2015 Completion of Loyola University Chicago Faculty Center for Ignatian Pedagogy, Online Teaching Course, Summer 2015.
- 2014 *Diamonds in the Rough: Diamondback Terrapins in the Salt Marshes of North Carolina*. Hawk Talk. North Carolina Wildlife Club. Charlotte, NC.
- 2013 *A field guide to research*. Bald Head Island Conservancy Intern Research Seminar guest speaker, Bald Head Island, NC.
- 2009, 2010 Seasonal changes in diamondback terrapin (*Malaclemys terrapin*) habitat use and activity in southeastern North Carolina. Bald Head Island Conservancy Discovery Lecture Series guest speaker, Bald Head Island, NC.
- 2009-12 Summer marine biology educator, University of North Carolina Wilmington Marine Quest Summer Academic Enrichment Program, for 12-16 year old students interested in marine biology research and careers.
- 2010 Summer camp instructor for camp BONES (Brigade of Nurse Exploring Seahawks), a nursing and health academy for underserved and underrepresented middle and high school students from New Hanover County, NC.
- 2007-08 Environmental Educator, University of Georgia Jekyll Island 4 H Center. Supervisor: Melanie Biersmith.

PROFESSIONAL SCHOLARLY AND SERVICE ACTIVITIES

- 2023-2025 Faculty Online Learning Communities for Gender Equity (FOLC-E) Cohort 2 to help support the objectives of our NSF ADVANCE Catalyst grant
- 2022- present BenU Institutional Animal Care and Use Committee (IACUC) Co-Chair
- 2022 Co-chair of Department of Biological Sciences (Interim from Feb 2022 – Aug 2022)
- 2022-present Learning Assistant Committee Chair
- 2018-2022 Learning Assistant Committee Member
- 2021-present Making and Unmaking of Structural Racism Workshop Member
- 2017-present Jurica-Suchy Natural History Museum Advisory Board Committee Member
- 2016-present The General Education Curriculum Committee
- 2018-present Graduate Program (MSIP) Advisory Committee
- 2019-present Darwin Day Committee
- 2019-2021 College of Science Curriculum and Standards Committee
- 2020 DEI task force for student recruitment and retention (Fall 2020)
- 2020-present Promoting Empowerment and Community Engagement (PEACE) Team
- 2019-present Safe Space Ally
- 2016-present People for Animal Welfare (PAW) student club Faculty Advisor

2022-present	Students for Ecological and Environmental Development (SEEDs) student club Faculty Advisor
Adjunct faculty	North Park University, adjunct professor for Taiwan abroad trip: BIOL 2155/CORE 3000B1 KYST Ecology and Culture of Asia—Taiwan with Dr. Timothy Lin.
Peer reviewer	Global Ecology and Conservation, Journal of Natural History, Conservation Physiology, Animal Conservation, Northeastern Naturalist, Diversity and Distributions, Wetlands, Copeia, Endangered Species Research, Southwestern Naturalist, Journal of Herpetology, Journal of Wildlife Management, Journal of Fish and Wildlife, Herpetological Conservation and Biology, Chelonian Conservation and Biology, North American Journal of Fisheries Management, Herpetologica, USGS Internal Reviewer, Herpetological Review, Journal of Urban Ecology, Ichthyology & Herpetology.
Grant proposal reviewer	Diamondback Terrapin Working Group Research travel grants (2009, 2011, 2012, 2019). Northeast Resource Conservation Needs Proposal Reviewer: Turtle Team (2011). Hudson River Foundation for Science and Environmental Research Proposal reviewer (2013). Diamondback Terrapin Working Group student travel grant and student research poster reviewer (2019).
Coordinator	Southeastern Diamondback Terrapin Working Group Symposium, Wilmington, NC. 2009. Cooperative meeting with agencies: Sapelo Island GA Coastal Training Program and National Estuarine Research Reserve (NERR), SC Division of Natural Resources, NC Coastal Reserve and NERR, North Inlet-Winyah Bay NERR and ACE Basin SC NERR. Southeastern Diamondback Terrapin Working Group Chair (March 2008-2013)
Society member	500 Women Scientists (500WS) Chicago, American Society of Ichthyologists and Herpetologists, Partners in Amphibian and Reptile Conservation, Association for Zoos and Aquariums, Chicago Herpetological Society, Society of Integrative and Comparative Biology, Diamondback Terrapin Working Group.

RESEARCH FEATURED IN

2017	<i>The Daily Herald</i> “Blanding’s turtles get a boost in DuPage”, <i>NCTV17</i> “Forest Preserve Releases Endangered Turtles”, and <i>ABC7 Chicago</i> .
2017	<i>BenU Voices Spring 2017</i> and <i>Ben.edu News Room</i> (Benedictine University) “Professor working to save endangered Northern Illinois Turtle”
2013	<i>Star News</i> , (Wilmington NC) “Diamondback terrapins subject of UNCW student’s research”
2013	<i>Coastal Review Online</i> (NC Coastal Federation) “Looking for Answers to Help Terrapins”
2009	<i>Coastwatch</i> (NC Sea Grant) “Mapping the Overlap: Terrapins & Crab Pots in the Lower Cape Fear Region”
2007	<i>The Charlotte Observer: Neighbors of Lake Norman</i> “Turtle Tracking: College student trying to find out if local golf course is suitable habitat”

