

**NATALIE JONES MOUNTJOY, PH.D.**

Associate Professor · Department of Biological Sciences  
Western Kentucky University · Bowling Green · KY · 42101  
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**EDUCATION**

2014 Ph.D. Zoology and Center for Ecology, Southern Illinois University

2007 M.S. Biology, Western Kentucky University

2002 B.A. Biology, University of Kentucky

**PROFESSIONAL EXPERIENCE**

2023-current Associate Professor, Department of Biological Sciences, Western Kentucky University

BIOL 120 Biological Concepts: Cells, Metabolism & Genetics

BIOL 120H Honors, Biological Concepts: Cells, Metabolism & Genetics

BIOL 122 Biological Concepts: Ecology, Evolution & Diversity

BIOL 122H Honors, Biological Concepts: Ecology, Evolution & Diversity

BIOL 121 Biological Concepts Lab: Cells, Metabolism & Genetics

BIOL 123 Biological Concepts Lab: Ecology, Evolution & Diversity

BIOL 369 Cooperative Education in Biology Learning Assistant Co-Op

BIOL 369 Patient Coordinator Internships with Med Center Health

BIOL 397 Process-Based Course: Clinical Research with Med Center Health

BIOL 575 Hybrid Graduate Course: Conservation Ecology

2017-2022 Assistant Professor, Department of Biology, Western Kentucky University

2012-2016 Director, Life Science Academy, Multi-district, secondary and post-secondary partnership, Owensboro Community and Technical College

2012-2016 Adjunct Faculty, Owensboro Community and Technical College

PLW 130 Principles of Biomedical Science

PLW 145 Biomedical Innovation

2016 Instructor, Project Lead the Way, University of Kentucky

2011-2012 Graduate Teaching Fellowship, NSF Noyce Program, Southern Illinois University

PBL 270 Interdisciplinary Science Seminar

SCI 503b Scientific Research Methods for Teachers

2011 Guest Lecturer, Southern Illinois University

Human Dimensions of Natural Resource Management & General Biology

2007-2009 Adjunct Faculty, Owensboro Community and Technical College

Bio 112 General Biology Lecture & Bio 113 General Biology Lab

2005-2007 Graduate Teaching Assistant, Western Kentucky University

Bio 123: Biological Concepts & Bio 114: Introduction to Biology

**CURRICULUM DEVELOPMENT**

2025 Conservation Ecology, BIOL 575, Graduate Course, new course development

2024 Biology Department First-Year Seminar Series

2021 Inquiry-based curriculum development for BIOL 123 Biological Concepts Lab: Ecology, Evolution & Diversity

2021 BIOL 397 Process-Based Course: Clinical research course linking pre-professional students with research questions, professionals, and Med Center Health EMR data

2021	BIOL 369 Patient Coordinator Internships: Med Center Health internship offering wherein our pre-professional students work with patient charts and EMR data to close care gaps
2020	Emergency online-only curriculum for BIOL 120, BIOL 121 and BIOL 123, including development of a new BIOL 123 course website (biol123online.com)
2020	Learning Assistants in Introductory Biology (BIOL 369), for inclusion in BIOL 120 lectures
2019	Inquiry-based curriculum development for BIOL 121 Biological Concepts Lab: Cells, Metabolism & Genetics (121cellmetagen.com)
2017-2019	Inquiry and problem-based revisions to introductory courses for biology majors at Western Kentucky University
2012-2016	Inquiry-based curriculum for the Life Science Academy Community Benefit Program
2011-2012	Inquiry-based curriculum for the NSF Noyce Teacher Scholarship Program at Southern Illinois University
2009-2012	Inquiry-based curriculum for the Budding Biotech Program and Summer Camp for 3rd and 4th grade students through the Owensboro Museum of Science and History and the Western Kentucky Botanical Garden
2008	Shared introductory biology lab curriculum at Owensboro Community and Technical College
2007	Bio 112 General Biology and Bio 113 Introductory Biology Lab courses at Owensboro Community and Technical College
2006	Assisted faculty in developing the curriculum for the new Biology 123 lab course at Western Kentucky University

**RESEARCH** (\*denotes BIOL 399 student involvement)

2024-current	Uncovering student alternative knowledge and using small interventions to dislodge misconceptions, collaboration with Lehigh University, University of Michigan, and Western Kentucky University. WKU-IRB #2214060-1.
2024-current	Ecological research initiatives across regulatory spaces: Goose Creek Mitigation, collaboration with Beaver Creek Hydrology and Western Kentucky University*
2019-current	Teaching students to learn: The effects of a metacognition-based intervention on student success in large lecture classrooms*
2018-current	Identifying the impact of increased inquiry-based techniques into the biology curriculum across courses and cohorts.
2024	An investigation of DEI issues in the Department of Biology, from the DEI Committee in the Department of Biology, WKU-IRB #2214060-1.
2023	Melanoma Incidence Rates and Outcomes in Rural vs. Urban Areas in Kentucky*
2023	The effectiveness of freshman experience courses in improving retention and graduation rates, and the potential for a freshman seminar in the Biology Department at WKU*
2023	Learning Assistants in the General Biology Lecture Hall: Can peer mentoring and small groups transform the student experience in large lectures?*
2022	Evaluating the advising experience across Ogden College from a student's perspective
2022	Closing care gaps in a rural medical system: Assessing the effectiveness of the Patient Coordinator Program at Med Center Health*
2021-2022	Comparing COVID vaccine side effects in clinical vs. real-world applications, across brand types Moderna, Pfizer, and Johnson & Johnson*

- 2020-2021 The effect of COVID-19 on cardiology: Patient & practitioner perspectives on telemedicine (pilot-study to expand undergraduate research experiences).
- 2018-2020 Why they stay: Analyzing the persistence of at-risk students in the Ogden College of Science and Engineering to identify successful retention initiatives and programs
- 2017-2019 Assessing the effects of 5th week interventions: Which type (announcement, email, or meeting) achieves the greatest impact on students' final grades.
- 2009-2014 Community-based natural resource management: group capacity, resource management planning and assessing success, Dissertation Research with Dr. Matt Whiles and Dr. Erin Seekamp
- 2011 Illinois-Indiana Sea Grant, Researcher, Southern Illinois University with Dr. Erin Seekamp
- 2009 Watershed Health Integrated Research Program, Graduate Student Researcher, Southern Illinois University with Dr. Mae Davenport
- 2008 National Science Foundation Math Science Partnership, Research Assistant, Western Kentucky with Dr. Heather Johnson
- 2005-2007 The effects of human/wildlife conflict on the potential for community-based ecotourism in the Kasigau region of southeast Kenya, Thesis research with Dr. Mike Stokes
- 2001- 2002 The distribution of the *Neotoma magister* (Allegheny woodrat) in an isolated, mix-mesophytic forest in Southeastern Kentucky, Independent study with Dr. James Krupa
- 2000- 2002 Analysis of sex-ratio bias in *Marchantia inflexa* (liverwort), Lab Assistant with Dr. Nicholas McLetchie

#### **CONFERENCE PROCEEDINGS (\* student under advisement)**

- LaCommare, K., Mountjoy, N., Nesmith, J. Catalytic Grant Winners: Uncovering Student Alternative Knowledge and Using Small Interventions to Dislodge Misconceptions. Oral Presentation at Pearson's Biology Leadership Community Summit, Myrtle Beach, South Carolina, April 12, 2025.
- LaCommare, K., Mountjoy, N., Nesmith, J., O'Keefe, Kayleigh. Uncovering student alternative knowledge and using small interventions to dislodge misconceptions. Poster presented at Pearson's Biology Leadership Community Summit, Myrtle Beach, South Carolina, April 11-13, 2025.
- Mountjoy, N. J., McDaniel, K., \*Cross, A. Making time for metacognition: The impact of a one-day intervention on student performance in large gateway biology courses. Pearson's Biology Leadership Community Summit, Phoenix, AZ, April 12-14, 2024.
- Mountjoy, N. J., Huskey, S., and McElroy, D., Integrating the African cichlid into your lab and lecture curriculum: An ideal model organism for general biology lecture & lab. Pearson's Biology Leadership Community Summit, Raleigh, North Carolina, March 31-April 2, 2023.
- Mountjoy, N. J., Using models of ecosystem restoration to improve student resistance & resilience. Pearson's Biology Leadership Community Summit, invited address. Phoenix, AZ, April 1-5, 2022.
- Mountjoy, N. J., Smith, M., Srivastava, A., Augment your course with a PBL poster session: Relating real-world content and problems with the general biology curriculum to enhance student understanding and content relevance. Pearson's Biology Leadership Community Summit, Phoenix, AZ, April 1-5, 2022.
- Johnson, J., \*Newman J.T., Bandy D., McElroy, D., Mountjoy, N. J., Singh, A., Joyce, M. Incidence and severity of COVID-19 vaccine side effects in a medically at-risk and vaccine-hesitant

- community. Research Foundation Symposium, Impact Award, Western Kentucky Heart & Lung. April 22, 2022.
- Mountjoy, N. J., (with BioCoaches: Grace Alexander, Kaley Bloyd, Molly Bostic, Ashley Hecklinger, Drew Hinton, Jocelyn Joshlin, Elizabeth Lyons, Annclaire Mcgee, Caroline Reed, Megan Rowe, Madeline Skau, Caleb Tamminga and Katie Thomason). BioCOACHING our students toward success: Using Learning Assistants to increase student engagement, achievement, and retention in large introductory biology courses. Pearson's Biology Leadership Community Summit, invited participant, Online Conference. March 2021.
- Mountjoy, N. J., McDaniel, K., Rowland, N. It Takes a Department to Shift a Paradigm: Starting in the lab. AAC&U's Transforming STEM Higher Education conference, Chicago, IL, November 7-9, 2019.
- Ayers, R., Dumancic, M., Mountjoy, N. J., Otto, P., Super, D., and Upright, P. Keeping the promise of colonnade: Needs assessment and action plan. AAC&U's 2019 Institute on General Education and Assessment, Burlington, Vt, June 4-7, 2019.
- Mountjoy, N. J., Advanced Research Techniques. Invited speaker, Project Lead the Way, Kentucky State Conference, Shelbyville, KY, October 3-4, 2016.
- Mountjoy, N. J., What is the Life Science Academy? Invited speaker, Owensboro Rotary Club, Owensboro, KY, January 2016.
- Mountjoy, N. J., Your Biomedical Program from In-Vitro to In-Vivo. Invited speaker, Project Lead the Way, Kentucky State Conference, Somerset, KY, October 2-3, 2015.
- Mountjoy, N. J., Parent and Community Involvement Forum, invited speaker, Project Lead the Way, Kentucky State Conference, Somerset, KY, October 2-3, 2015.
- Mountjoy, N. J., Seekamp, E., Davenport, M. A., Whiles, M. R. The effects of community-based group capacity on resource management planning success: Elevating implementation outcomes from good to great. Presented by Natalie Mountjoy at the Ecological Society of America Conference, Minneapolis, MN, August 4-9, 2013.
- Seekamp, E., Mountjoy, N. J., Davenport, M., Whiles, M. 2013. Achieving laser-like vision: An examination of the relationship between indicators of CBNRM group capacity and planning success. Presented by Erin Seekamp at the International Symposium on Society and Resource Management, Estes Park, Colorado, June 4-8, 2013.
- Seekamp, E., Mountjoy, N. J. 2013. Alcohol, apathy, and arrogance: Examining the effectiveness of the Stop Aquatic Hitchhikers! Campaign. Northeastern Recreation Research Symposium, Cooperstown, New York, April 5-7, 2013.
- Renzaglia K., Janesie, J., \*Sikorski, J. W., Mountjoy, N. J., Henson, H. 2012. Research Activities and Problem-based Learning Experiences of Rural Teachers in Southern Illinois. NSF Robert Noyce Teacher Scholarship Program Conference, Washington, D.C., May 23-25, 2012.
- Mountjoy, N. J., Davenport, M. A., Myers, D. J., Whiles, M. R. An assessment of Illinois Conservation Opportunity Areas: Stakeholders' perspectives on conservation planning, implementation, and threats. A poster presented by Natalie Mountjoy at the Emerging Issues Conference, Atlanta, GA, April 11-14, 2010.
- Mountjoy, N. J., Exploring the potential bushmeat epidemic in southeastern Kenya, Walk and Talk Seminar Series, Invited speaker, Western Kentucky Botanical Garden, Owensboro, KY. April 2008.
- Mountjoy, N. J., A look at community-based conservation efforts in southeast Kenya: The importance of human dimensions in wildlife conservation. Invited speaker, International Program, Owensboro Community and Technical College, Owensboro, KY, February 11, 2008.
- Mountjoy, N. J., Daday, G., Stokes, M., Kimwele, C. Questioning conservation: Social surveys in conservation biology as tools to determine the potential of community-based ecotourism efforts.

Presented by Natalie Mountjoy at the International Conference of the Society for Conservation Biology, Port Elizabeth, South Africa, 2007.

Jones [Mountjoy], N., Smith, B., Sutton, B., Kimwele, C., McElroy, D., Stokes, M. Assessment of the bushmeat trade in southeastern Kenya. Presented by Dr. Stokes at the international conference of the Society for Conservation Biology, Port Elizabeth, South Africa, 2007.

Jones [Mountjoy], N., Smith, B., Sutton, B., Kimwele, C., McElroy, D., Stokes, M. Assessing bushmeat availability in Kenya's rural and urban markets. Presented by Natalie Jones at the annual American Society of Mammalogists Conference, 2006.

## **STUDENT PRESENTATIONS OR POSTERS**

- \*Anderson, Alexandria. Comorbidity Differences Among Rural and Urban Patients with Osteoarthritis. Oral presentation at the 2025 WKU Student Scholar Showcase. April 5, 2005.
- \*Anderson, Alexandria. Influence of Distance on Hip Osteoarthritis Treatment in Southcentral Kentucky. Oral presentation given at Western Kentucky Heart and Lung Consortium, WKU and Med Center Health. Poster presented at the University of Kentucky School of Medicine – Bowling Green Student Research Showcase, Med Center Health. November 11, 2004.
- \*New, Caroline and \*Webb, D. Differences in NSTEMI Presentation: Analyzing Outcomes in Men vs. Women. Research Foundation Symposium, Western Kentucky Heart & Lung. April 14, 2023.
- \*Alexander, G., \*Eastham, R., \*Molina-Lopez, S., and \*Towery, M., Melanoma Incidence Rates and Outcomes in Rural vs. Urban Areas in Kentucky. Research Foundation Symposium, Western Kentucky Heart & Lung. April 14, 2023.
- \*Skau, M, \*Horn, J., \*Tes, R., Mountjoy, N. J., McElroy, D., Joyce, M., Mountjoy, J. Rice, E., and Swiney, J., Analysis of the Patient Coordinator Program at the Medical Center Bowling Green. WKHL Research Foundation. Bowling Green, KY. May Meeting, 2022.
- \*Robertson, S., Inquiry-Based Learning & The Impact on Student Perspectives. WKU Student Research Conference, WKU, March 26, 2022.
- \*Skau, M., \*Horn, J., \*Tes, R., Analysis Of The Patient Coordinator Program. WKU Student Research Conference, WKU, March 26, 2022.
- \*Stallings, A., Vora, S., Towery, N., Mountjoy, N. J. And the band played on: hearing loss among percussionists. Project Lead the Way, Posters at the Capital, KY, March 1, 2017.
- \*Murtaza, I., Madai, N., Howerd, J., Mountjoy, N. J. The effects of environmental factors on REM sleep. Project Lead the Way, Posters at the Capital, KY, March 1, 2017.
- \*Stallings, A., Jones, J., Vora, S., Mountjoy, N. J. An EPIc challenge: the rising costs of epi pens. Project Lead the Way, Posters at the Capital, KY, March 1, 2017.
- \*Embry, A., Buckman, C., Mountjoy, N. J. Trotting all over the navicular: the effects of environmental variables on Navicular Syndrome in horses. Project Lead the Way, Posters at the Capital, KY, March 1, 2017.
- \*Cecil, M., Kurtz, L., Linn, E., Mountjoy, N. J. Keep it clean, bacteria's mean: a better bioassay to detect bacteria in the emergency department. Project Lead the Way, Posters at the Capital, KY, February 18, 2016.
- \*Martin, N., Hall, W., Muthalali, S., Mountjoy, N. J. Protect your blind side or suffer the consequences: an analysis of the impact of concussions on high school athletes' GPAs. Project Lead the Way, Posters at the Capital, Frankfort KY, February 18, 2016.
- \*Miller, A., Millay, R., Hebda-Hobbs, G., Emani, C., Mountjoy, N. J. Tracing the ancestry of the asthma gene using bioinformatics. Project Lead the Way, Posters at the Capital, Frankfort KY, February 18, 2016.

## PEER-REVIEWED PUBLICATIONS

- McElroy D., \*Towery M., \*Molina-Lopez S., \*Eastham R., \*Alexander S. G, **Mountjoy N. J.** 2024. Incidence Rates and Outcomes of Nodular and Superficial Spreading Melanoma along the Rural-Urban Continuum in Kentucky and Their Relationship to Provider Care Access. *South Med J.* 2024 May;117(5):235-240.
- Joyce, M., **Mountjoy, N. J.**, Johnson, J., Newman, J. T., Bandy, D., Atalla, N., Singh, A., McElroy, D. From trial to practice: Incidence and severity of COVID-19 vaccine side effects in a medically at-risk and vaccine-hesitant community. *BMC Public Health* 22, 2351.
- Singh, A., **Mountjoy N**, McElroy D, Mittal S, Al Hemyari B, Coffey N, Miller K, Gaines K. 2021. Patient Perspectives With Telehealth Visits in Cardiology During COVID-19: Online Patient Survey Study. *JMIR Cardio* 5(1).
- Mountjoy, N. J.**, Whiles, M. R., Spyreas, G., Lovvorn, J. R., & Seekamp, E. 2016. Assessing the efficacy of community-based natural resource management planning with a multi-watershed approach. *Biological Conservation*, 201, 120-128.
- Mountjoy, N. J.**, Seekamp, E., Davenport, M. A., & Whiles, M. R. 2014. Identifying capacity indicators for community-based natural resource management initiatives: focus group results from conservation practitioners across Illinois. *Journal of Environmental Planning and Management*, 57(3), 329-348.
- Mountjoy, N. J.**, Seekamp, E., Davenport, M. A., & Whiles, M. R. 2013. The Best Laid Plans: Community-Based Natural Resource Management (CBNRM) Group Capacity and Planning Success. *Environmental management*, 52(6), 1547-1561.
- Krupa J, et al.... **Jones [Mountjoy], N.** 2002. Distribution of the Allegheny Woodrat (*Neotoma magister*) in an isolated, mix-mesophytic forest in Southeastern Kentucky. *Journal of Kentucky Academy of Sciences* 65(1): 33-34.

## IN-PROGRESS MANUSCRIPTS

- Mountjoy, N. J. & McDaniel, K. The effects of a one-time metacognitive intervention on gateway biology students' grade predictions, assessment grades, and course persistence. *Potential Outlets: Research & Practice or CBE - Life Sciences Education*
- Mountjoy, N.J. Learning Assistants in the General Biology Lecture Hall: How peer mentoring and small groups can transform the student experience in large lectures and provide upperclassman with opportunities to build in-discipline knowledge, confidence, and communication skills. *Potential Outlets: Innovative Higher Education, Journal of College Science Teaching*
- Mountjoy, N. J. and Rowland, N. A story of inquiry in three labs: How the scale of inquiry and student maturity affect student learning gains. *Potential Outlets: International Journal for the Scholarship of Teaching and Learning or Life Science Education*

## PUBLISHED TECHNICAL REPORTS

- Meyers, D. J., Mountjoy, N. J., Whiles, M. R., & Seekamp, E. 2012. Illinois Conservation Opportunity Areas: Coordination and Planning in Support of the Illinois Wildlife Action Illinois Department of Natural Resource Management Project Number: T-55-P-1. Final Report. Available at <https://www.dnr.illinois.gov/conservation/IWAP/Documents/-SWGReports/T-55%20P-1%20Final%20IL%20COA-%20Coordination-Planning%20in%20Support%20of%20the%20Action%20Plan%20-Revised.pdf>.
- Mountjoy, N. J., Seekamp, E., Myers D. J., Whiles M. R. 2011. Making conservation work: ideas from on-the-ground practitioners. Illinois Department of Natural Resource Management Project Number: T-55-P-1. Available at <http://www.dnr.illinois.gov/conservation/iwap/documents/t-55%20swg%20project/2-%20fg%20report%20to%20idnr.pdf>.

Mountjoy, N. J., Davenport, M. A., Meyers, D. J., & Whiles, M. R. 2010. An assessment of Illinois Conservation Opportunity Areas: stakeholders' perspectives on conservation planning, implementation, and threats. Illinois Department of Natural Resources. Available at <http://www.dnr.illinois.gov/conservation/IWAP/Documents/T-55%20SWG%20project/1-%20Original%20COA%20Survey.pdf>.

## **GRANTS**

2024 Davey Environmental Consultants, \$12,000, awarded.  
2024 Pearson Biology Leadership Grant, \$10,000, Co-PI, awarded.  
2024 Mahurin Honors Faculty Engagement Grant, \$1,063, awarded.  
2023 Mahurin Honors Faculty Engagement Grant, \$605.00, awarded.  
2023 Research & Creative Activities Program (RCAP), Elephants and Sustainable Agriculture in Kenya (ESAK) Learning Labs: Linking real research to our gateway biology lab courses, Co-PI with Dr. Bruce Schulte, \$16,000, not funded.  
2022 KY-IBRE Course-based Undergraduate Research Experiences Award, \$20K/year, not funded.  
2022 Mahurin Honors Faculty Engagement Grant, \$210.00, awarded.  
2021 Mahurin Honors Faculty Engagement Grant, \$250.00, awarded.  
2021 Pearson Biology Leadership Grant, \$10,000, Co-PI, not funded.  
2019 Mahurin Honors Faculty Engagement Grant, \$280.00, awarded.  
2018 Office of International Programs for travel and course development, \$2,000.00, awarded.  
2018 Ogden Quick Turn-Around Grant, \$1,600.00, not funded.  
2016 Kentucky Education Cabinet, Work Ready Skills Initiative (collaborator, finalist) \$5,760,000.00, awarded at 50%  
2016 Dart Foundation Grant for STEM Education \$5,000.00, awarded  
2016 Owensboro Health Community Benefit Grant \$60,500.00, awarded  
2016 National Science Foundation, Education, Outreach and Communication (collaborator with C. Emani & C. Wilkerson), \$10,000.00, awarded  
2015 Dart Grant for STEM Education, \$5,000.00, awarded  
2015 Owensboro Health Community Benefit Grant, \$64,000.00, awarded  
2015 Kentucky Department of Education, Federal Perkins Reserve Fund, \$24,000.00, awarded  
2015 Women's Guild Grant, \$1,000.00, awarded  
2014 Dart Foundation Grant for STEM Education, \$5,000.00, awarded  
2014 Owensboro Health Community Benefit Grant, \$52,000.00, awarded  
2014 Kentucky Dept. of Ed., Biomedical Sciences Career Pathway Grant, \$15,000.00, awarded  
2013 Owensboro Health Community Benefit Grant, \$61,550.00, awarded

## **SERVICE**

2024-current Biology Department Recruitment Committee, Chair  
2024-current Biology Department Progression Committee  
2024-current First Year Seminar  
2024-current Biology Leadership Community, Advisory Committee  
2024-current Science Advisor, Western Kentucky Botanical Garden  
2022-current CITL Gateway Initiative, Western Kentucky University  
2022-current Colonnade Assessment Oversight for BIOL 120 and BIOL 122  
2021-current Biology Poster Session  
2017-current Ogden College Retention Taskforce, Co-chair since 2019, Chair since 2024  
2025 Biology Department Preview Days Volunteer  
2025 Biology Department HelpDesk

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2025 Failing Forward, WKU PD Day, January 16, 2025. Invited Speaker  
2024 AED Guest Speaker, WKU  
2024 Search Committee, Preserve Manager, Biology Department, WKU  
2024 CEBS Best Practices Workshop, McDaniel, K. and Mountjoy N. J., Metacognition in the Classroom: Strategies to Help Students Study, March 29, 2024. Invited Speaker.  
2024 Metacognition First-Year Seminar with Dr. Kerrie McDaniel, February 23, 2024.  
2023-2024 Department of Biology Diversity, Equity, & Inclusion (DEI) Committee Member  
2023 Potter Gray Guest Scientist: Animal Form & Function, October 10, 2023.  
2023 Biology Teacher's Dinner, Recruitment Activity, November 7, 2023.  
2023 WKU-CITL Gateway Community Research & Reflections  
2023 Student Scholar Showcase Workshop: How to Give a Talk, at Western Kentucky University, February 21, 2023.  
2022 Potter Gray Guest Scientist: Animal Form & Function, October 12, 2022.  
2022 Ogden Preview Day  
2022 WKU-CITL Informal discussion of metacognition. Online forum.  
2022 Ad-hoc Department of Biology Student Mentorship Policy Committee Member  
2022 WKU-CITL Winter Workshop: Metacognition, Natalie Mountjoy & Kerrie McDaniel  
2022 MHC panel at the Student Success Summit: Focus on High Impact Practices: Creative Uses of Honors Faculty Engagement Grants, Natalie Mountjoy (invited)  
2021 CITL New Faculty: How to Teach Effectively at Western Kentucky University  
2021 New Faculty Q & A Panel: Ogden College  
2021 Gatton Academy Interview Day  
2021 Focus on High Impact Practices: Creative Uses of Honors Faculty Engagement Grants, Student Success Summit Group Presentation, WKU [invited]  
2020-2023 Department of Biology Strategic Planning Committee Member  
2020-2021 Science advisor to WKHL and the Medical Center  
2020 CITL Faculty Development Webinar: Keeping it After Covid [invited and lead]  
2020 CITL YouTube Panel and Q&A: Assessment during COVID-19 [invited]  
2020 New Faculty Q&A Panel: Ogden College  
2020 Search Committee: Biomedical Faculty, Biology Department  
2020 Search Committee: Department Chair, Biology Department  
2020 Ogden Preview Day  
2020 WKU HerStory Recruiting Event  
2019-2024 Department of Biology Advising Committee Member  
2019 Ogden College Advisory Board Presentation  
2019 WKU Colonnade General Education Curriculum Taskforce  
2019 Biology Clubs and Faculty Meet & Greet  
2018 Ogden Preview Day  
2018 Science Olympiad  
2017-2024 Department of Biology Retention Committee, Chair  
2017-2023 Department of Biology Graduate Committee  
2017-2019 Program Director and Advisor: MAE in Biology  
2017-2019 Gatton Academy Interview Day  
2017-2019 Gatton Academy Research Fair  
2016 Forum guest, Female Ph.D.s, Girl's Inc. STEM Event, Kentucky Wesleyan College  
2016-2024 Board of Directors, Western Kentucky Botanical Garden, Owensboro, KY  
2014-2017 Institutional Animal Care and Use Committee (IACUC), Owensboro Community and Technical College  
2013-2015 Impact 100 Member (women's service organization) Owensboro, KY

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2008-2013 Founder and consultant with the Budding Biotech Program, Owensboro Museum of Science and History, Owensboro, KY

2008-2013 Board of Directors, Owensboro Museum of Science and History, Owensboro, KY

2008 Guest Scientist, Girls Inc., Owensboro, KY, <http://sciencegirlsinc.weebly.com>

2005-2006 Co-President, Inaugural Biology Graduate Student Organization, Western Kentucky University

## **WEB DEVELOPMENT**

2025 Applied Genetics Concentration Webpage, WKU Biological Sciences

2025 Applied Microbiology Concentration Webpage, WKU Biological Sciences

2025 Integrative Biology Concentration Webpage, WKU Biological Sciences

2025 Pre-Medical Professionals Concentration Webpage, WKU Biological Sciences

2025 Ogden College Study Hub, WKU Ogden College

2024 Ecology, Wildlife, and Conservation Concentration Webpage, WKU Biological Sciences

2024 Animal Physiology and Behavior Concentration Webpage, WKU Biological Sciences

2024 Biology Internships, WKU Biological Sciences

2024 Graduate School Guide, WKU Biological Sciences

2023 Faculty Advising Portal, WKU Ogden College

2022 Student Advising Portal, WKU Ogden College

2021 Tech Reqs Page, WKU Ogden College

2021 BIOL 123 Ecology, Evolution, & Diversity, Course Website, WKU Biological Sciences

2019 BIOL 121 Cells, Metabolism & Genetics, Course Website, WKU Biological Sciences

## **PROFESSIONAL DEVELOPMENT**

2025 Biology Leadership Community Summit, Myrtle Beach, SC, April 2025.

2025 WKU Suitable PD Seminar, April 2025.

2025 WKU PD Day, Bowling Green, KY, January 2005.

2024 Blackboard Ultra Training, December 2024.

2024 Biology Leadership Community Summit Tucson, AZ, April 2024.

2023 OMNI/CMS Online Training October 2023.

2023 Biology Leadership Community Summit Raleigh, NC. April 2023.

2022 Western Kentucky University Student Success Summit

2022 WKU-CITL Winter Workshop.

2022 Biology Leadership Community Summit, Phoenix, AZ, April 2022.

2021 Course Review: Mastering Pearson Gateway Course Success Project. Jan. - June 2021.

2021 Biology Leadership Community Summit, Online Conference. March 2021.

2021 Student Success Summit WKU-CITL, January 14, 2021.

2020 Getting the Most from Mastering: Pearson, November 2020.

2020 Keeping it After Covid: Participant & Facilitator, WKU-CITL November 2020.

2020 Assessment during COVID-19, WKU-CITL, June 2020.

2020 Integrative student and course data, Pilot Program Training, Pearson, February 19,

2019 Association of American Colleges & Universities, Transforming STEM Higher Education conference, Chicago, IL, November 7-9, 2019.

2019 Association of American Colleges & Universities, Institute on General Education and Assessment, University of Vermont, June 2019.

2019 Problem-based Learning Professional Learning Community, Center for Innovative Teaching and Learning, WKU, February - March 2019.

2019 Biology Leadership Community Summit, Las Vegas, Nevada, March 19-21, 2019.

2019 HIPs (High Impact Practices) in the States Conference, WKU, February 20-22, 2019.

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2018 Mastery Training with Pearson, teleconference, July 24, 2018.  
2018 The Teaching Professor Conference in Atlanta, GA, July 1-3, 2018.  
2018 Kentucky Pedagogicon at Eastern Kentucky University, May 18, 2018.  
2018 Blackboard - 10 Things You Didn't Know, IT - WKU, February 22, 2018.  
2018 5th Week Assessment Training, ACDC, WKU, February 16, 2018.  
2018 Using Micro Activates Workshop, Center for Innovative Teaching and Learning, WKU, WKU, January 14, 2018.  
2017 iClicker Training, Steven Kirtley, Senior Instructional Technologist, Center for Innovative Teaching and Learning, WKU, September 6, 2017.  
2017 IT Blackboard Training, On-line training, WKU, September 2017.  
2017 Service-Learning Professional Learning Community, Center for Innovative Teaching and Learning, WKU, Sept.- Oct. 2017.  
2015 Core Training in Biomedical Innovation, Project Lead the Way, University of Kentucky, June, 2015.  
2012 Core Training in Principles of Biomedical Science, Project Lead the Way, University of Kentucky, June 2012.

## **STUDENT MENTORING**

Undergraduate Research Mentoring: Reagan Scheffel (2025), Lauren Nesbitt (2025), Violet Weaver (2025), Alexandria Anderson (2024), Sydney Reeves (2024), Stephanie Massengale (2024), Abigail Bechert (2024), Atiana Spivey (2023), Janna James (2023), Spencer Bass (2023), Julia Howard (2023), Taylor Boian (2022), Macy Murphy (2022), Alix Cross (2022), Jackson Horn (2022), Rheanna Tes (2022), Madeline Skau (2022), Samantha Steward (2021), Emily Johnson (2021), J. T. Newman (2020)  
Pre-Professional Committees: Grace Alexander (2022), Kat Howard (2022), Zack Owen (2022), Breanna Creekmore (2022), E Myo Zin (2022), Emily Bolinger (2022), Abby Mills (2022), Jackson Horn (2022), Will Whittaker (2022), Lindsay Tucker (2022), Lauren Trout (2022), Sarah Mathis (2022), Leon Trinh (2021), Shelby Robertson (2021), J. T. Newman (2020)  
Honors Committee Chair: Shelby Robertson (2022), Alexanderia Anderson (2023-2024)  
Graduate Student Committees: Rianna Soltis (Grubbs, 2024), and Emma Bell (Stokes/Primary, 2024), Julia Brzezicki (Schulte, 2023), Serena Sieler (Schulte/Primary, 2023), Jerica Eaton (Johnson, 2023), Elizabeth Strasko (Johnson, 2022), Matt Bowers (Bruce Schulte, 2022), Josie Griffith (Scott Grubs, 2022), Dakota Vaccaro (Bruce Schulte, 2021), Sophia Corde (Bruce Schulte, 2020)  
Online Graduate Student Research Advisor: Samantha Morgan (2024), Jillian Keefer (2025)

## **RECOGNITION**

2025 Teaching Honors Nominee, CITL-WKU  
2025 Faculty Member of the Year, Alpha Xi Delta  
2024 Teaching Honors Nominee, CITL-WKU  
2023 Faculty Award for Excellence in Advising, Ogden College  
2023 Teaching Honors Nominee, CITL-WKU  
2023 Omega Phi Alpha Faculty Member of the Year  
2022 Teaching Honors Award for Ogden College of Science and Engineering, CITL-WKU  
2022 Teaching Honors Nominee, CITL-WKU  
2022 Faculty Ally Recognition Award, Kelly Autism Program, WKU  
2021 University Faculty Teaching Award, Western Kentucky University  
2021 Teaching Honors Nominee, CITL-WKU

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2021 Junior Faculty Teaching Award, Ogden College  
2020 Teaching Honors Nominee, CITL-WKU  
2020 Faculty Member of the Year, Alpha Omicron Pi  
2019 Faculty Member of the Year, Alpha Delta Pi  
2018 Junior Faculty Teaching Award, Ogden College  
2016 Kentucky Teacher of the Year, Project Lead the Way  
2016 Awarded Master Teacher Status, Project Lead the Way  
2012 Graduate Fellowship, NSF Robert Noyce Master Teacher Program, Southern Illinois University  
2010 Integrative Graduate Education and Research Traineeship (IGERT) Affiliate, Multidisciplinary watershed science team, Southern Illinois University  
2007 John D. Minton Award for Outstanding Contributions, Western Kentucky University  
2007 Outstanding Graduate Student, Ogden College, Western Kentucky University  
2007 Biology Graduate Student of the Year, Western Kentucky University  
2006 Lewis and Clark Field Scholar, American Philosophical Society  
2005 World Topper Scholarship, Western Kentucky University

#### **PROFESSIONAL SOCIETY MEMBERSHIPS**

Association of American Colleges and Universities, National Science Teachers Association, Society for Human Ecology, Society for Conservation Biology

#### **PROFESSIONAL REVIEWS**

Human Dimensions of Wildlife, Conservation Biology, Case-Studies in the Environment (Pedagogical Journal), Environmental

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