

Natalie Jones Mountjoy, Ph.D.
 Department of Biology · Western Kentucky University
 Bowling Green · KY · 42101

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

2017-current Assistant Professor, Pedagogy, Department of Biology, Western Kentucky University
 BIOL 120 Biological Concepts: Cells, Metabolism & Genetics
 BIOL 120 Biological Concepts Honors: Cells, Metabolism & Genetics
 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

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

2020 Emergency on-line 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-current 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 EXPERIENCE

- 2020-current The effects of using HIPs in gateway courses on student success and retention
- 2020-current Learning Assistants in the General Biology Lecture Hall: How peer mentoring and small groups can transform the student experience in large lectures
- 2019-current Teaching students to learn: The effects of a metacognition-based intervention on student success in large lecture classrooms
- 2018-current 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
- 2018-current Identifying the impact of increased inquiry-based techniques into the biology curriculum across courses and cohorts.
- 2017-current 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)

- 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.
- *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.
- Mountjoy, N. J.**, Advanced Research Techniques. Invited speaker, Project Lead the Way, Kentucky State Conference, Shelbyville, KY, October 3-4, 2016.

- *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.
- 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.

PEER-REVIEWED PUBLICATIONS

- 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.** 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 in inquiry in three labs: How the scale of inquiry and student maturity affects student learning gains. Potential Outlets: International Journal for the Scholarship of Teaching and Learning or Life Science Education
- Singh, A., McElroy, D., and **Mountjoy N. J.** Telehealth cardiology clinic during COVID-19: Patients' Perspectives & Satisfaction. Potential Outlet: Cardiovascular Quality and Outcomes

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

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| 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 Department of Education, Biomedical Sciences Career Pathway Grant, \$15,000.00, awarded
2013	Owensboro Health Community Benefit Grant, \$61,550.00, awarded

SERVICE

2019-current	Department of Biology Advising Committee Member
2017-current	Ogden College Retention Taskforce, Co-chair 2019-20
2017-current	Department of Biology Graduate Committee
2017-current	MAT-Biology Admission Advisor
2017-current	Department of Biology Retention Committee, Chair 2019-20
2016-current	Board of Directors, Western Kentucky Botanical Garden, Owensboro, KY
2020	Science advisor to WKHL and the Medical Center
2020	CITL Faculty Development Webinar: Adjusting Your Assessments for Online
2020	CITL YouTube Panel Presentation and Q&A: Assessment during COVID-19
2020	Biology Student & Faculty Concerns During Online-Only Instruction (survey development & analysis)
2020	Search Committee: Biomedical Faculty, Biology Department
2020	Search Committee: Department Chair, Biology Department
2020	Ogden Preview Day
2020	WKU HerStory Recruiting Event
2017-2019	Program Director and Advisor: MAE in Biology
2017-2019	Gatton Academy Interview Day
2017-2019	Gatton Academy Research Fair
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
2014-2017	Institutional Animal Care and Use Committee (IACUC), Owensboro Community and Technical College
2016	Forum guest on "Female Ph.D.s" at the Girl's Inc. STEM Event, Kentucky Wesleyan College, Owensboro, KY
2013-2015	Impact 100 Member (women's service organization) Owensboro, KY
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

PROFESSIONAL DEVELOPMENT

2020	Assessment during COVID-19, WKU-CITL, June, 2020
2020	Integrative student and course data, Pilot Program Training, Pearson, February 19, 2020.

- 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 Pearson's Biology Leadership Community Summit, invited participant, Las Vegas, Nevada, March 19-21, 2019.
- 2019 HIPs (High Impact Practices) in the States Conference, WKU, February 20-22, 2019.
- 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.

RECOGNITION

- 2020 CITL Teaching Honors Nominee
- 2020 Alpha Omicron Pi Faculty Member of the Year
- 2019 Alpha Delta Pi Faculty Member of the Year
- 2018 Ogden College Junior Faculty Teaching Award
- 2016 Project Lead the Way, Kentucky Teacher of the Year
- 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 Ogden College of Science and Engineering Outstanding Graduate Student, Western Kentucky University
- 2007 Biology Graduate Student of the Year, Western Kentucky University
- 2006 American Philosophical Society, Lewis and Clark Field Scholar
- 2005 World Topper Scholarship, Western Kentucky University

PROFESSIONAL SOCIETY MEMBERSHIPS

National Science Teachers Association, Society for Human Ecology and Society for Conservation Biology

PROFESSIONAL REVIEWS

Conservation Biology, Case-Studies in the Environment (Pedagogical Journal), Environmental Management, Journal of Environmental Planning & Management, Ecological Economics, Human Dimensions of Wildlife