

Natalie Jones Mountjoy, Ph.D.

Department of Biology · Western Kentucky University

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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

- 2017-current Assistant Professor, Pedagogy, 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

RESEARCH EXPERIENCE

- 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

PRESENTATIONS & POSTERS (* student under advisement)

- *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 epens. 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 & TECHNICAL REPORTS

- 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.
- 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>.
- 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.

CURRICULUM DEVELOPMENT

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| 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 |

GRANTS

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| 2016 | Kentucky Education Cabinet, Work Ready Skills Initiative (collaborator, finalist) \$5,760,000.00, awarded at 50% |
| 2016 | Dart (National Polymer Manufacturers) Foundation Grant for STEM Education \$5,000.00, awarded |
| 2016 | Owensboro Health (regions' largest health system) 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 (regional polymer manufacturing) Foundation Grant for STEM Education, \$5,000.00, awarded |
| 2015 | Owensboro Health (regions' largest health system) Community Benefit Grant, \$64,000.00, awarded |
| 2015 | Kentucky Department of Education, Federal Perkins Reserve Fund Grant, \$24,000.00, awarded |
| 2015 | Women's Guild (local non-profit) Grant, \$1,000.00, awarded |

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- 2014 Dart (National Polymer Manufacturers) Foundation Grant for STEM Education, \$5,000.00, awarded
- 2014 Owensboro Health (regions' largest health system) Community Benefit Grant, \$52,000.00, awarded
- 2014 Kentucky Department of Education, Biomedical Sciences Career Pathway Grant, \$15,000.00, awarded
- 2013 Owensboro Health (regions' largest health system) Community Benefit Grant, \$61,550.00, awarded

SERVICE

- 2017 Advisor: Students Seeking On-line Master's Degree in Biology
- 2017 Advisor: Biology Majors Seeking Secondary Education Certification; MAE in Biology Students; MAT Students
- 2017 Biology undergraduate retention working group
- 2017 Ogden College Recruitment Taskforce
- 2016-current Board of Directors, Western Kentucky Botanical Garden, Owensboro, KY
- 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 (a women's service organization that issues annual request for proposals and funds two \$100,000+ grants), 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 SOCIETY MEMBERSHIPS

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

PROFESSIONAL REVIEWS

Conservation Biology
 Case-Studies in the Environment
 Environmental Management
 Ecological Economics

PROFESSIONAL DEVELOPMENT

- 2017 Professional Learning Community: Service Learning, Western Kentucky University
- 2015 Core Training in Biomedical Innovation, Project Lead the Way, University of Kentucky

2012 Core Training in Principles of Biomedical Science, Project Lead the Way,
University of Kentucky

RECOGNITION

2016 Awarded 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