

ZACHARY J. LOUGHMAN, Ph.D.

Curriculum Vitae

6 Oak Drive Circle, Wheeling WV, 26003

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CURRENT POSITION

Assistant Professor of Biology (Zoology and Ecology)

Department of Natural Sciences and Mathematics

West Liberty University

EDUCATION

PhD in Ecology and Evolutionary Biology

Indiana State University, Terre Haute IN,

Graduated summa cum laude

Advisor: Dr. John Whitaker

Dissertation Topic: Ecology, Conservation, and Taxonomy of West Virginia's Crayfishes

Master of Science in Biology

Marshall University, Huntington WV, December 2005

Graduated summa cum laude and "with excellence".

Advisor: Dr. Thomas Pauley

Thesis: Analysis of Amphibian and Reptile Communities on a Reclaimed Mine Land in Southern West Virginia

Bachelor of Science: Major: Biological Sciences; Minor: Geography

West Liberty State College, West Liberty, WV. May 2002

Graduated with a 3.0 GPA

Advisor: Willis "Bob" Gordon, M.S.

Undergraduate Project: Ecology of the Northern Water Snake (*Nerodia s. sipedon*) in Northern West Virginia

PUBLISHED ABSTRACTS / ORAL PRESENTATIONS

- Loughman, Z. J. *Life History of Cambarus chasmodactylus (New River Crayfish) in Anthony Creek, West Virginia*. 2014. Association of Southeastern Biologists Meeting, Spartansburg, South Carolina.
- Loughman, Z. J. *Crayfish of Great Smoky Mountains National Park*. 2014. Discover Life in America Annual conference, Gatlinburg, Tennessee.
- Loughman, Z. J. *West Virginia's Invasive Crayfishes*. 2013. West Virginia Invasive Species. West Virginia Invasive Species Working Group. West Virginia Wesleyan College, Buckhannon, West Virginia.
- Loughman, Z. J. *Should I Stay or Should I go? Determining the movement patterns of male New River crayfish through use of telemetry*. 2013. West Virginia Academy of Sciences Meeting, Canaan Valley Institute and Association of Southeastern Biologists Meeting, Charleston, West Virginia.
- Loughman, Z. J. *Crayfishes of Hazel and Eagle Creek watersheds with an emphasis on the conservation status of the Hazel Creek Crayfish*. 2013. Discover Life in America Annual conference, Gatlinburg, Tennessee.
- Loughman, Z. J. *Current conservation status of West Virginia's crayfishes*. 2012. Annual West Virginia Entomological Society meeting, North Bend State Park, West Virginia
- Loughman, Z. J. *Food for thought: Needs for the development of a crayfish rearing protocol for hellbenders*. 2012. Annual Ohio Hellbender Conservation Society meeting, The Wilds, Cambridge Ohio
- Loughman, Z. J. *A crayfish's tale: Determining Orconectes virilis macrohabitat preference through use of telemetry in a West Virginia stream*. 2012. National Aquatic Invasive Species Task Force Meeting, Annapolis, Maryland.
- Loughman, Z. J. and S. A. Welsh. *Burrowing crayfish occupancy rates at natural and disturbed sites along West Virginia's Ohio and Kanawha River floodplains*. 2012. Association of Southeastern Biologists Meeting, Athens Georgia, West Virginia Academy of Sciences Meeting, West Virginia State University, Institute, West Virginia, and the Society for Freshwater Sciences Meeting, Louisville, Kentucky.
- Loughman, Z. J., K. T. Skalican and N. Taylor. 2012. *Determination of daily movements and macrohabitat preference of the invasive crayfish Orconectes virilis through use of telemetry*. Association of Southeastern Biologists Meeting, Athens Georgia and the West Virginia Academy of Sciences Meeting, West Virginia State University, Institute West Virginia.
- Loughman, Z. J. *Macrohabitat selection and life history dynamics of native and invasive crayfishes determined through use of telemetry*. 2011. Mid-Atlantic Panel on Aquatic Invasive Species Meeting. National Conservation Training Center, Shepherdstown, West Virginia

- Loughman, Z. J. and S. A. Welsh. *Cambarus (Puncticambarus) smilax*, a new species of crayfish (Crustacea; Decapoda: Cambaridae) from the Greenbrier River basin of West Virginia. 2011. Proceedings of the West Virginia Academy of Science Meeting, WVU Tech, Montgomery West Virginia.
- R. Fagundo, N. Taylor, D. Foltz, T. Kangisser, N. Garrison, A. Renshaw, S. Welsh and Z. J. Loughman. *Epigeal crayfishes of West Virginia's Lower Kanawha River System: conservation and natural history*. 2011. Proceedings of the West Virginia Academy of Science Meeting, WVU Tech, Montgomery West Virginia.
- Loughman, Z. J. and S. A. Welsh. 2011. *West Virginia Crayfishes: results to date from the second statewide survey*. Association of Southeastern Biologists Meeting, Huntsville Alabama.
- Loughman, Z.J. and S.A. Welsh. 2010. *The crayfishes of West Virginia revisited: results from the second statewide census*. International Astacology Association Biannual Meeting, Columbia, Missouri.
- Loughman, Z. J. 2010. *Rediscovery and discussion of future conservation efforts for Cambarus (P.) veteranus in West Virginia*. International Astacology Association Biannual Meeting, Columbia, Missouri.
- Loughman, Z. J., N. L. Garrison, M. Mckinney and S. A. Welsh. 2009. *Crayfishes of the West Virginia Portion of the Cheat River: Temporal changes and conservation*. Proceedings of the West Virginia Academy of Science Meeting, Glenville West Virginia
- Vopal, C. G., Loughman, Z. J., N. L. Garrison, M. Mckinney and S. A. Welsh. 2009. *Crayfishes of the James River System with an emphasis on the conservation of Cambarus longulus*. Proceedings of the West Virginia Academy of Science Meeting, Glenville West Virginia
- Loughman, Z. J., N. L. Garrison and S. A. Welsh. 2009. *Crayfishes of West Virginia's Potomac River Basins: Conservation and Natural History*. Southern Division of the American Fisheries Society Meeting. New Orleans, Louisiana
- Loughman, Z. J. and S. A. Welsh. 2008. *Conservation of West Virginia's imperiled crayfishes: concerns and ecology*. Proceedings of the West Virginia Academy of Science Meeting, Fairmont, West Virginia
- Loughman, Z. J., N. Garrison, and S. Welsh. 2008. *Conservation and natural history of West Virginia's Atlantic Slope crayfish fauna*. Proceedings of the West Virginia Academy of Science Meeting, Fairmont West Virginia
- Loughman, Z. J. and S. Welsh. 2008. *Conservation status and concerns of West Virginia Crayfishes*. Southern Division of the American Fisheries Society Meeting. Wheeling, West Virginia
- Loughman, Z. J., 2008. *Western Maryland crayfishes: ecology, distribution and natural history*. Southern Division of the American Fisheries Society Meeting. Wheeling, West Virginia

- Loughman, Z. J. 2008. *Ecology of Cambarus (J.) dubius in north Central West Virginia*. Southern Division of the American Fisheries Society Meeting. Wheeling, West Virginia
- Loughman, Z. J., S. Welsh and T. P. Simon. 2008. *Current trends in cambarid crayfish research: conservation of an imperiled fauna*. Southern Division of the American Fisheries Society Meeting. Wheeling, West Virginia
- Loughman, Z. J. and L. E. Kimpel., 2007. *Crayfishes of Potomac Gorge National Park, Virginia*. Proceedings of the 2007 West Virginia Academy of Science Meeting, Huntington West Virginia
- Loughman, Z. J., 2007. *Conservation and natural history of West Virginia's Ohio River Floodplain crayfishes*. Proceedings of the 2007 West Virginia Academy of Science Meeting, Huntington West Virginia
- Loughman, Z. J., 2005. *First Record of Procambarus (O.) acutus (White River Crayfish) with notes on its natural history*. Proceedings of the West Virginia Academy of Science Meeting, Morgantown West Virginia
- Loughman, Z. J. and T. K. Pauley., *Natural history and distribution of Ambystoma texanum (Small Mouthed Salamander) in West Virginia*. Proceedings of the West Virginia Academy of Science Meeting 2005. Morgantown, West Virginia
- Loughman, Z. J. and T. K. Pauley., 2005. *Snake community dynamics of a reclaimed mine land in Southern West Virginia*. 2005. Association of Southeastern Biologists Meeting, Florence Alabama
- Loughman, Z. J., 2004. *Survey of crayfish biodiversity along the West Virginia Ohio River Floodplain*. ORBCRE meeting, Athens Ohio.
- Loughman, Z. J. and T.K. Pauley. 2004. *Reproductive biology of the queen snake (Regina septemvittata) in northern West Virginia*. Association of Southeastern Biologists Meeting, Memphis Tennessee
- Loughman, Z. J., 2002. *Reptiles and amphibians of the Lewis Wetzel Wildlife Management Area, Wetzel County*, Proceedings of the West Virginia Academy of Science Meeting 2002. Morgantown West Virginia
- Loughman, Z. J., 2002. *Reproductive biology of the eastern garter snake (Thamnophis s. sirtalis) in Northern West Virginia*. Proceedings of the West Virginia Academy of Science Meeting 2002. Morgantown West Virginia
- Loughman, Z. J., 2001. *Reptiles and Amphibians of Marshall, Ohio, and Brooke County, West Virginia*. Proceedings of the West Virginia Academy of Science Meeting. West Liberty, West Virginia

- Loughman, Z. J. and W. M. Gordon., 2001. *Feeding ecology of the Northern Watersnake in Northern West Virginia*. Proceedings of the West Virginia Academy of Science Meeting, Fairmont, West Virginia

POSTER PRESENTATIONS

- Skalican, K. T., N. Taylor and **Z. J. Loughman**. 2012. Life history of *Cambarus chasmodactylus* from the central portion of the species range. Association of Southeastern Biologists Meeting, Athens Georgia, West Virginia Academy of Sciences Meeting, West Virginia State University, Institute West Virginia, and the Society for Freshwater Sciences Meeting, Louisville, Kentucky.
- Loughman, Z. J. 2011. Ecology of *Cambarus dubius* in northcentral West Virginia. Proceedings of the West Virginia Academy of Science Meeting, WVU Tech, Montgomery West Virginia.
- Foltz, D. A., N. Garrison, T. Kangisser, N. Taylor, S. A. Welsh, and **Z. J. Loughman**. 2011. Baited lines, a novel approach to collecting burrowing crayfishes. Proceedings of the West Virginia Academy of Science Meeting, WVU Tech, Montgomery West Virginia.
- Foltz, D. A., N. Garrison, T. Kangisser, N. Taylor, S. A. Welsh, and **Z. J. Loughman**. 2011. Baited lines, a novel approach to collecting burrowing crayfishes. Association of Southeastern Biologists Meeting, Huntsville Alabama.
- Kangisser, T., D. A. Foltz, N. Taylor, and **Z. J. Loughman**. 2011. Creation of Reach-Scale Habitat Models to Determine Crayfish Abundance in Central Appalachia. Proceedings of the West Virginia Academy of Science Meeting, WVU Tech, Montgomery West Virginia.
- Kangisser, T., D. A. Foltz, N. Taylor, and **Z. J. Loughman**. 2011. Creation of Reach-Scale Habitat Models to Determine Crayfish Abundance in Central Appalachia. Association of Southeastern Biologists Meeting, Huntsville Alabama.
- McGill K., M. Mc Kinney, K. Cushman and **Z. J. Loughman**. 2011. Molecular systematics of *Cambarus carinirostris* and *Cambarus b. bartonii*. Proceedings of the West Virginia Academy of Science Meeting, WVU Tech, Montgomery West Virginia.
- McGill K., M. Mc Kinney, K. Cushman and **Z. J. Loughman**. 2011. K. McGill, M. Mc Kinney, K. Cushman and Z. Loughman. 2011. Molecular systematics of *Cambarus carinirostris* and *Cambarus b. bartonii*. Association of Southeastern Biologists Meeting, Huntsville Alabama.
- Taylor, N. D. Foltz, T. Kangisser, and **Z. J. Loughman**. 2011. Conservation of West Virginia's Kanawha River bottomland burrowing crayfishes: species relationship to soil composition and compaction with an emphasis on *Fallicambarus fodiens*. Proceedings of the West Virginia Academy of Science Meeting, WVU Tech, Montgomery West Virginia.

- Taylor, N. D. Foltz, T. Kangisser, and **Z. J. Loughman**. 2011. Conservation of West Virginia's Kanawha River bottomland burrowing crayfishes: species relationship to soil composition and compaction with an emphasis on *Fallicambarus fodiens*. Association of Southeastern Biologists Meeting, Huntsville Alabama.
- Loughman, Z. J., D. Foltz, N. Garrison, E. Hewitt, M. Mc Kinney, S. Welsh. 2010. Crayfishes of West Virginia's Elk River Basin, Natural History and Conservation. International Association of Astacologists Meeting. Columbia, Missouri.
- Garrison, N., and **Z. J. Loughman**. 2008. Comparative ecology of *Cambarus (C.) b. bartonii* and *Orconectes (C.) obscurus* in the Cacapon River Basin, West Virginia. Southern Division of the American Fisheries Society Meeting. Wheeling, West Virginia
- Loughman, Z.J., 2005. Survey of Crayfish (Decapod:Cambaridae) Species Along the Ohio River Floodplain in West Virginia. Southeastern Biologists Meeting, Florence, Alabama
- Loughman, Z.J., D. Merritt and T.K. Pauley., 2005. Feeding Ecology of *Desmognathus quadramaculatus* (Black-Bellied Salamander) across the Southern Appalachians. Southeastern Biologists Meeting, Florence, Alabama
- Loughman, Z.J., C. Good and Thomas K. Pauley., 2005. Status of the West Virginia state collection of amphibians and reptiles. Southeastern Biologists Meeting, Florence, Alabama
- Makowsky, R., **Z. J. Loughman**, and T.K. Pauley. 2004. Amphibian and reptile surveys in the Gauley River National Recreation area in West Virginia. Southeastern Biologists Meeting, Memphis TN.

PUBLICATIONS

(Popular)

- Loughman, Z.J. "Crayfish." e-WV: The West Virginia Encyclopedia. 01 August 2014. Web. 23 September 2014. <http://www.wvencyclopedia.org/articles/2426>
- Loughman, Z.J., Muddling with mudbugs: conservation and biology of West Virginia's burrowing crayfish. Summer 2008. West Virginia Wildlife Magazine
- Loughman, Z. J., Wood Turtle, Wildlife Diversity Notebook. Summer 2006. West Virginia Wildlife Magazine
- Loughman, Z. J., Buffet or bare bones: feeding habits of West Virginia snakes. Spring 2005 West Virginia Wildlife Magazine

PUBLICATIONS

(Articles and book chapters)

- Loughman, Z. J., D. A. Foltz, and S. A. Welsh. 2013. Baited Lines: An active nondestructive collection method for burrowing crayfish. *Southeastern Naturalist* 12(4): 809-815.

- Loughman, Z. J., R. A. Fagundo, E. A. Lau, S. A. Welsh, and R. F. Thoma. 2013. *Cambarus (C.) hatfieldi*, a new species of crayfish (Decapoda:Cambaridae) from the Tug Fork River basin of Kentucky, Virginia, and West Virginia. 3750(3): 223-236.
- Helms, B., Z. J. Loughman, B. L. Brown, and James Stoeckel. 2013. Recent advances in crayfish biology, ecology, and conservation. *Freshwater Science* 32(4): 1273-1275.
- Loughman, Z. J., K. T. Skalican, and N. D. Taylor. 2013. Habitat selection and movement of *Cambarus chasmodactylus* assessed via radio telemetry. *Freshwater Science* 32 (4): 1288-1297.
- Loughman, Z. J., D. A. Foltz, N. L. Garrison, and S. A. Welsh. 2013. *Cambarus theepiensis*, a new species of crayfish from the coalfields region of eastern Kentucky and southwestern West Virginia, USA. *Zootaxa* 3641 (1): 63-73.
- Loughman, Z. J., S. A. Welsh, and T. P. Simon. 2012. Occupancy rates of primary burrowing crayfish in natural and disturbed large river bottomlands. *Journal of Crustacean Biology*. 32(4): 557-564.
- Loughman, Z. J., T. P. Simon and S. A. Welsh. 2011. *Cambarus (Puncticambarus) smilax*, a new species of crayfish (Crustacea; Decapoda: Cambaridae) from the Greenbrier River basin of West Virginia. *Proceedings of the Biological Society of Washington*. 124:2, 84-99.
- Loughman, Z. J., T. P. Simon and S. A. Welsh. 2010. Forward to Conservation, ecology, and biology of North American Crayfishes. *Southeastern Naturalist* 9 (Special Publication 3): 1-11.
- Loughman, Z. J. 2010. Ecology of *Cambarus (J.) dubius* in north Central West Virginia in *Southeastern Naturalist* 9 (Special Publication 3): 200-217.
- Loughman, Z. J., 2010. Crayfishes of Western Maryland: conservation and natural history. *Southeastern Naturalist* 9 (Special Publication 3): 33-62.
- Loughman, Z. J. and S. Welsh. 2010. Distribution and conservation standing of West Virginia crayfishes. *Southeastern Naturalist* 9 (Special Publication 3): 63-78.
- Welsh, S. A., Z. J. Loughman, T. P. Simon. 2010. Concluding remarks: A symposium on the conservation, biology, and natural history of the crayfishes of the southeastern United States. *Southeastern Naturalist* 9 (Special Publication 3): 267-269.
- Loughman, Z. J., N. Garrison, S. A. Welsh, and T. P. Simon. 2009. Zoogeography, conservation, and ecology of crayfishes within the Cheat River basin of the upper Monongahela River drainage, West Virginia. *West Virginia Academy of Sciences*. 81:2, 25-42
- Loughman, Z. J., T. P. Simon, S. Welsh. 2009. West Virginia crayfishes: observations on distribution, natural history, and conservation. *North Eastern Naturalist*. 16 (2): 225-238.

- Loughman, Z. J. and J. W. Reid. 2009. Crayfishes (Crustacea:Decapoda) and copepods (Crustacea:Copepoda) of Potomac Gorge National Park, Virginia. *Banisteria* 31: 30-37.
- Loughman, Z. J., 2007. *Cambarus (T.) thomai* in Maryland: conservation implications of an introduced burrowing crayfish population. *Freshwater Crayfish News*. 29 (3) (Cover Article)
- Loughman, Z. J., 2007. First record of *Procambarus (O.) acutus* (White River Crayfish) in West Virginia with notes on its natural history. *Northeastern Naturalist*. 14 (3) p. 495-500
- Loughman, Z. J., 2005. Natural history and conservation biology of a southern West Virginia Contour Surface Mine Reptile and Amphibian Community. M.S. Thesis. Marshall University, Huntington West Virginia. 102 p

PUBLICATIONS

(Books & Monographs)

- Loughman Z.J. and T. P. Simon. 2011. Zoogeography, taxonomy, and conservation of West Virginia's Ohio River floodplain crayfishes (Decapoda, Cambaridae). *ZooKeys* 73: 1-78.
[doi: 10.3897/zookeys.73.808](https://doi.org/10.3897/zookeys.73.808)
- Loughman, Z. J., S. A. Welsh, and T. P. Simon. 2010. Conservation, Biology, and Natural History of Crayfishes from the Southern United States: Proceedings of a 2008 Symposium of the Southern Division of the American Fisheries Society. *Southeastern Naturalist*. Special Publication #3. 270 p - Associate Editor

RESEARCH GRANTS

(Includes in-kind support)

2013 - West Virginia Division of Natural Resources

Formal description and conservation planning of two undescribed members of the *Cambarus dubius* (Upland Burrowing Crayfish) specie complex in West Virginia - \$18,887.00

2013 - Big Thicket Association - *Invited Proposal*

Request of funds to survey Big Thicket National Preserve, Texas crayfish fauna - \$10,000.00

2013 - Pennsylvania Fish and Boat Commission

Proposal to fund surveys of Western Pennsylvania's burrow crayfish - \$15,000.00

2012 - Columbus Zoo and Aquarium Conservation Fund

Development of a captive crayfish rearing program for imperiled Appalachian crayfishes and crayfish feeding obligates - \$5,000.00

2011 Discover Life in America

Survey of the Crayfishes of Smoky National Park - \$5,000.00

2010 WVNASA grant

Fund Request for collection of crayfish topotype from across the Southeast - \$6,200.00

2010 WVDNR State Wildlife Grant

Monies to complete West Virginia crayfish atlas project - \$13,000.00

2010 WVDNR State Wildlife Grant

Determination of species replacement mechanisms associated with invasive crayfish interactions with native West Virginia crayfishes - \$18,000.00

2010 VADNR State Wildlife Grant

Distribution and Description of an undescribed Orconectes species occurring in the Upper James and Roanoke River basins - \$36,000.00

2009 West Virginia Division of Natural Resources Wildlife Diversity Program

Conservation assessment and survey of three Marietta River Relicts in West Virginia: Ambystoma texanum, Fallicambarus fodiens, and Procambarus acutus = 15,600.00

2008 NASA/Sigma Xi Grants to Improve Research

Phylogenetic analysis of potential Cambarus Species Complexes in West Virginia = 3,500.00

2007 NASA/Sigma Xi Grants to Improve Research

Behavioral ecology of Cambarus (J.) dubius in North Central West Virginia = \$2,309.00

2007 NASA/SIGMA XI

Funds for species description of crayfishes in the Mid-Atlantic region = \$750.00

2006 West Virginia Division of Natural Resources Heritage Program

*Conservation assessment and survey of West Virginia's Crayfishes = \$85,000.00
(Co P.I Stuart Welsh, United States Geologic Survey)*

2006 Maryland Biological Stream Survey-Maryland Division of Natural Resources

Survey of Western Maryland Crayfishes = \$16,350.00

2006 WV-EPSCOR Instrumentation Grant

Equipment for aquatic ecological research = \$20,000.0 (With Dr. Bruce Edenger)

2006 NASA/Sigma Xi Grants to Improve Research

Crayfishes of Northern West Virginia with an emphasis on C. (J.) monongalensis = \$6,000.00

2006 NASA/Sigma Xi,

Seed funds for the West Liberty State College Fern Garden = \$1,000.00

2006 Indiana Biological Survey

Collection of crayfish voucher material across West Virginia = \$2,000.00

2006 Ohio Division of Natural Resources Wildlife Diversity Program Grant,

*Crayfish of the Flushing Escarpment with an emphasis on the Rusty Crayfish distribution = \$14,260.00
(Co P.I. Roger Thoma, Midwestern Biodiversity Institute)*

2005 West Virginia Division of Natural Resources Wildlife Diversity Program Grant
First Herpetological Survey of the Northern Panhandle of West Virginia with an Emphasis on Species of Greatest Need of Conservation = \$15,000.00

2004 West Virginia Division of Natural Resources Wildlife Diversity Program Grant
Survey of Crayfish Diversity along the West Virginia Ohio River Floodplain. = \$10,900.00

2004 NASA/SIGMA XI Higher Education Grant

Survey of Crayfish Diversity along the West Virginia Ohio River Floodplain. = \$1,000.00

2003 West Virginia Division of Natural Resources Wildlife Diversity Program Grant,
Natural History and Demography of the Eastern Hognose Snake (Heterodon platirhinos) in West Virginia = \$11,500.00

2003 Marshall University Research Foundation Summer Research Grant

Natural History and Demography of the Eastern Hognose Snake (Heterodon platirhinos) in West Virginia = \$500.00

2003 NASA/SIGMA XI Higher Education Grant

Natural History and Demography of the Eastern Hognose Snake (Heterodon platirhinos) in West Virginia = \$1,000.00

2002 NASA Higher Education Grant

Reproductive Biology of Thamnophis sirtalis in Northern West Virginia = \$281.00

ENVIRONMENTAL EDUCATION/EDUCATION GRANTS

2014 - WVEpSCOR - *Topper Sure Program* - \$158,000.00

2011 WVNASA K-12 Teacher Education Grants - *Project B.E.E. for West Virginia High school teachers and Citizen Scientists* - \$12,000.00

2006 WVEPA F.L.O.W Grant (with Schrader Environmental Education Center), *Future Leaders of Watershed: Building capacity for West Virginia's Northern Panhandle* = \$50,000.00

2006 Melinda Gray Ardia Environmental Education Grant

Adventures in Appalachian Stream Ecology: Natural History of Non-Game Fishes and Crayfishes = \$1,000.00

2006 Captain Planet Explorers Grant

Adventures in Appalachian Stream Ecology: Natural History of Non-Game Fishes = 1,000.00

2006 E.P.A. Mid-Atlantic region Environmental Education Grants

Mission Ground Truth 21 Exploration Grant = \$10,000.00

2006 NASA Science Education Grant

Mountain Nature Camp: a Natural Experience for Secondary Education Teachers = \$5,000.00

TEACHING EXPERIENCE

Assistant Professor - West Liberty University -Fall 2011 - Present

Instructor of Biology - West Liberty University - Fall 2008 - Fall 2011

Natural History Research Specialist, West Liberty State College August 2006 - May 2008

Courses Instructed at West Liberty University = Life Sciences (BIO 105), Zoology and Zoology Laboratory (BIO 202), Ecological Habitats and Biological Diversity (BIO 225), Entomology and Entomology Laboratory (BIO 330), Arthropod Biodiversity and Arthropod Biodiversity Laboratory (BIO 335), Ecology and Ecology Laboratory (BIO 404), Field Biology and Field Biology Laboratory (BIO 406). Herpetology and Herpetology Laboratory (BIO 408), Conservation Biology and Conservation Biology Laboratory (BIO 440), Biology program Capstone (BIO 448)

West Liberty University Honor Seminars - Fall 2010 *Appalachian Natural History*

Spring 2011 - *Toxic Terrors: Biology of poisonous and venomous creatures.*

WVDNR Master Naturalist Instructor, January 2007 - Present

Classes Instructed: Ecology, Herpetology, Astacology, Aquatic Habitats, Terrestrial Habitats, and Wetlands

Environmental Education Specialist May 2005 - Present

Created and implemented environmental education programs for all age groups.

Herpetology Laboratory Instructor, August 2004 - December 2004

Marshall University. Huntington WV

Ornithology Laboratory Instructor, January 2005 - May 2005

Marshall University. Huntington WV

AWARDS AND HONORS

- 1st Place in the West Liberty State College Foundation Research Competition 2000.
- 1st Place in the West Liberty State College Foundation Research Competition 2001.
- 2nd Place in the West Liberty State College Foundation Research Competition 2002.
- Key Note Speaker for the Henry Steifel Schrader Environmental Education center "Speaking for the Earth " series 2002
- Best Graduate Oral Presentation, West Virginia Academy of Sciences Meeting 2005, Morgantown, West Virginia

- Invited speaker to Bucknell University evolution and conservation seminar, Spring 2009.
- Best Graduate Oral Presentation, West Virginia Academy of Sciences Meeting 2009, Glenville, West Virginia
- Best Professional Poster, International Association of Astacologists meeting, Columbia Missouri, 2010.
- Best Graduate Student Poster Award, West Virginia Academy of Science annual meeting 2011, West Virginia Tech, Montgomery, West Virginia
- West Liberty University Faculty Excellence Award 2010 – *Given to one faculty member annually from the university; synonymous with “Faculty of the Year” awards at other institutions*
- West Liberty University Faculty Excellence Award 2012 – *Given to one faculty member annually from the university; synonymous with “Faculty of the Year” awards at other institutions*
- West Virginia State Journal 40 under 40 fellow – 40 under 40 fellow

FIELDWORK SKILLS

Herpetology: Drift Fences, Cover Boards, Funnel Traps, Call Surveys, Quadrat Survey, Hoop Traps, Dip Netting, Road Search, Acrylic Elastomer Tags, Eye Shine Location, Snorkeling, Photography in the Field, Gut Flushing.

Astacology: Crayfish field collecting techniques (tertiary, secondary and primary burrowers), Utilization of crayfish manuals and keys, Crayfish field preservation techniques

REFERENCES

Dr. Thomas K. Pauley
Graduate Advisor, Professor of Herpetology
Dept. of Biological Sciences
Marshall University
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Dr. Stuart Welsh
Adjunct Associate Professor of Fisheries
United State Geological Survey Cooperative Biologist
West Virginia University
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Dept. of Natural Sciences and Mathematics
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