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EDUCATION

Ph.D. in Fish and Wildlife Conservation (in progress) and Global Change Fellow, Virginia Tech, Blacksburg, VA.

Dissertation: Ecology of the eastern hellbender (*Cryptobranchus alleganiensis*) in Virginia. Advisor: William A. Hopkins. Degree expected Aug 2016

M.S. in Fisheries and Wildlife Sciences, University of Missouri, Columbia, MO.

Thesis: Translocation and conservation of hellbenders in Missouri. Advisor: Joshua J. Millspaugh. Aug 2010

B.S. in Environmental Science, Philosophy minor, Georgetown College, Aug 2001

Study Abroad Program, University of Newcastle, New South Wales, Australia. Fall 2000

PEER REVIEWED JOURNAL ARTICLES

Jachowski, C. M. B., J. J. Millspaugh, and W. A. Hopkins. In press. Current land use is a poor predictor of hellbender occurrence: why assumptions matter when predicting distributions of data deficient species. *Diversity and Distributions*.

Van Dyke, J., **C. M. B. Jachowski**, D. Steen, B. Jackson, and W. A. Hopkins. In press. Spatial differences in trace element bioaccumulation in turtles exposed to a partially remediated coal fly-ash spill. *Environmental Toxicology and Chemistry*.

Hopkins, W. A., J. A. Fallon, M. Beck, B. H. Coe, and **C. M. B. Jachowski**. 2016. Haematological and immunological characteristics of eastern hellbenders (*Cryptobranchus alleganiensis alleganiensis*) infected and co-infected with endo- and ectoparasites. *Conservation Physiology* 4: doi:10.1093/conphys/cow00.

Coe, B. H., M. L. Beck, S. Y. Chin, **C. M. B. Jachowski**, and W. A. Hopkins. 2015. Local variation in weather conditions influences incubation behavior and temperature in a passerine bird. *Journal of Avian Biology* 46(4): 385-394.

Jachowski, D.S., **C. M. B. Jachowski**, and W. M. Ford. 2014. Is white-nose syndrome causing insectivory release and altering ecosystem function in the eastern US? *Bat Research News* 55: 21-24.

Ayers, C. R., J. L. Belant, **C. M. B. Jachowski**, J. T. Briggler, and J. J. Millspaugh. 2013. Relating resource use to body condition and survival of Ozark hellbenders *Cryptobranchus alleganiensis bishopi*. *Endangered Species Management* 21: 205-213.

- Rota, C. T., J. J. Millspaugh, D. C. Kesler, C. Lehman, M. Rumble, and **C. M. B. Jachowski**. 2013. A re-evaluation of the modified case-control model for use in resource selection studies. *Journal of Animal Ecology* 82(6): 1165-73.
- Hopkins, W. A., **C. M. Bodinof**, S. Budischak, and C. Perkins. 2013. Nondestructive indices of mercury exposure in three species of turtles occupying different trophic niches downstream from a former chloralkali facility. *Ecotoxicology* 22: 22-32.
- Bodinof, C.M.**, J. T. Briggler, R. E. Junge, J. Beringer, M. D. Wanner, C. D. Schuette, J. Ettlign, R. A. Gitzen, and J. J. Millspaugh. 2012. Postrelease movements of captive-reared Ozark hellbenders. *Herpetologica* 68(2): 160-173.
- Bodinof, C.M.**, J. T. Briggler, R. E. Junge, T. Mong, J. Beringer, M. D. Wanner, C. D. Schuette, J. Ettlign, and J. J. Millspaugh. 2012. Survival and body condition of captive-reared juvenile Ozark hellbenders (*Cryptobranchus alleganiensis bishopi*) following translocation. *Copeia* 2012(1): 150-159.
- Bodinof, C. M.**, J. T. Briggler, R. E. Junge, J. Beringer, M. D. Wanner, C. D. Schuette, J. Ettlign, and J. J. Millspaugh. 2012. Habitat attributes associated with short-term settlement of Ozark hellbender (*Cryptobranchus alleganiensis bishopi*) salamanders following translocation to the wild. *Freshwater Biology* 57(1): 178-192.
- Browne, R.K., L. Hong, D. McGinnity, S. Okada, W. Zhenghuan, **C. M. Bodinof**, K. J. Irwin, A. McMillan, and J. T. Briggler. 2011. Survey techniques for giant salamanders and other aquatic Caudata. *Amphibian and Reptile Conservation* 5(4): 1-16.
- Bodinof, C. M.**, J. T. Briggler, M. Duncan, J. Beringer, and J. J. Millspaugh. 2011. Historic occurrence of the amphibian chytrid fungus *Batrachochytrium dendrobatidis* in hellbender *Cryptobranchus alleganiensis* populations from Missouri. *Diseases of Aquatic Organisms* 96: 1-11.
- Bergeron, C. M., W. A. Hopkins, **C. M. Bodinof**, S. A. Budischak, H. Wada, and J. M. Unrine. 2011. Counterbalancing effects of maternal mercury exposure during different stages of early ontogeny in American toads. *Science of the Total Environment* 409: 4746-4752.
- Bergeron, C. M., **C. M. Bodinof**, J. M. Unrine, and W. A. Hopkins. 2010. Mercury accumulation along a contamination gradient and nondestructive indices of bioaccumulation in amphibians. *Environmental Toxicology and Chemistry* 29: 980-988.
- Bergeron, C. M., **C. M. Bodinof**, J. M. Unrine, and W. A. Hopkins. 2010. Bioaccumulation and maternal transfer of mercury and selenium in amphibians. *Environmental Toxicology and Chemistry* 29: 989-997.

PEER REVIEWED BOOK CHAPTERS

- Millspaugh, J. J., D. C. Kesler, R. W. Kays, R. A. Gitzen, J. H. Schulz, C. T. Rota, **C. M. Bodinof**, J. L. Belant, and B. J. Keller. 2012. Wildlife radiotelemetry and remote monitoring, pp.258-283 *in* The Wildlife Techniques Manual Vol.1: Research, N. J. Silvy, ed. 7th edition. Johns Hopkins University Press, Baltimore, Maryland, USA.
- Millspaugh, J. J., R. A. Gitzen, J. L. Belant, R. W. Kays, B. J. Keller, D. C. Kesler, C. T. Rota, J. H. Schulz, and **C. M. Bodinof**. 2012. Analysis of radiotelemetry data, pp. 480-501 *in* The Wildlife Techniques Manual Vol.1: Research, N. J. Silvy, ed.7th edition. Johns Hopkins University Press, Baltimore, Maryland, USA.

PEER REVIEWED NOTES

- Coe, B. C., D. V. Drewett, **C. M. B. Jachowski**, and W. A. Hopkins. In press. *Cryptobranchus alleganiensis alleganiensis* (Eastern Hellbender). Terrestrial movement. Herpetological Review.
- Jachowski, C. M. Bodinof** and W. A. Hopkins. 2013. *Cryptobranchus alleganiensis alleganiensis* (Eastern Hellbender). Aggregate Behavior. Herpetological Review 44 (2): 292.

TECHNICAL REPORTS

- Jachowski, C. M. B.** and W. A. Hopkins. 2014. Occurrence and Habitat Use of Eastern Hellbenders (*Cryptobranchus alleganiensis alleganiensis*) in the New River, VA. Prepared for Virginia Department of Game and Inland Fisheries. 23 pp.
- Jachowski, C. M. B.**, I. Vining, and J. T. Briggler. 2012. 2012 Hellbender Monitoring Report for Missouri: Bryant Creek and North Fork of the White rivers. Missouri Department of Conservation, Jefferson City, MO, USA.
- Bodinof, C. M.**, J. T. Briggler and I. Vining. 2012. 2011 Hellbender Monitoring Report: Current, Meramec and Niangua rivers. Missouri Department of Conservation, Jefferson City, MO, USA.
- Bodinof, C. M.**, J. T. Briggler and I. Vining. 2012. 2010 Hellbender Monitoring Report: Big Piney and Eleven Point rivers. Missouri Department of Conservation, Jefferson City, MO, USA.
- Bodinof, C. M.**, J. T. Briggler and I. Vining. 2012. 2009 Hellbender Monitoring Report: Bryant Creek, North Fork of the White and Gasconade rivers. Missouri Department of Conservation, Jefferson City, MO, USA.

PROFESSIONAL EXPERIENCE

Graduate Research Assistant & Ph.D. candidate, Virginia Tech, Aug 2012-present
Resource Staff Scientist, Missouri Department of Conservation, Aug 2011–Aug 2012
Senior Technical Research Assistant, University of Missouri, July 2010-Aug 2011
Graduate Research Assistant, University of Missouri, Aug 2007–July 2010
Research Technician, Virginia Tech, Feb 2007–Aug 2007
Environmental Education Program Coordinator, University of Georgia Cooperative Extension, Aug 2004-Jan 2007

TEACHING & MENTORING EXPERIENCE

Herpetology Instructor. Wildlife Techniques Field Course, Virginia Tech, Blacksburg, VA, Aug 2015
Facilitated Learning for Developing Graduate Experiences (FLeDGE) mentor. Undergraduate student Valentina Alaasam, Project title: Morphology and physiology of brooding and non-brooding hellbenders. Wildlife Ecotoxicology and Physiological Ecology Lab, Virginia Tech, Aug 2013-May 2015
Herpetology guest lecturer. Natural history and conservation of hellbenders. Herpetology Course, Virginia Tech, Blacksburg, VA, Spring 2013- 2016
Field Instructor & Curriculum Development Coordinator. Experiential field courses including stream ecology, forest ecology, herpetology, entomology and team building, University of Georgia Cooperative Extension, Dahlonega, GA & Green River Preserve, Cedar Mountain, NC. 2002-2007

GRANTS & AWARDS

Interfaces of Global Change Interdisciplinary Graduate Fellowship Awardee. 2014.
Henry Sackett Mosby Scholarship for Virginia Tech Graduate Students in Fish and Wildlife Conservation. 2014. **\$1,000**
Virginia Tech Organismal Biology and Ecology Interdisciplinary Grant. 2013. Associations between habitat quality, behavior and physiology of hellbenders during the nesting season. W. A. Hopkins (PI), I. T. Moore (co-PI) and C. M. B. Jachowski (Co-PI). **\$4,000**
Virginia Tech Organismal Biology and Ecology Travel Grant. 2013. **\$779**
Virginia Department of Game and Inland Fisheries. 2012. A multiple-scale assessment of eastern hellbender (*Cryptobranchus alleganiensis alleganiensis*) populations in

Virginia, including occupancy, abundance, habitat selection and physiological condition. W. A. Hopkins (PI) and C. M. Bodinof (co-PI). **\$344,084**

Virginia Department of Game and Inland Fisheries. 2011. Occurrence and habitat use of eastern hellbenders (*Cryptobranchus alleganiensis*) in the New River, VA. W. A. Hopkins (PI) and C. M. Bodinof (co-PI). **\$10,000**

Missouri Chapter of the Wildlife Society Graduate Fellowship, 2010

Joseph Bixby Graduate Fellowship in Wetland Ecology, 2009 & 2010

Sigma Xi Grants-in-Aid of Research. 2009. Long term changes in prevalence of physical abnormalities in hellbenders from Missouri. **\$740**

American Museum of Natural History Study Collection Grant. 2008. Long term changes in prevalence of abnormalities and chytridiomycosis in Missouri hellbenders. **\$630**

SPECIALIZED SKILLS & TRAINING

Alan Alda Science Communication Workshop Participant, 2015

Interfaces of Global Change Science Communication Workshop Participant, 2015

Virginia Tech Science Communication Workshop Participant, 2014

Conflict Resolution Workshop Participant, 2014

Occupancy Modeling Workshop Participant, 2010

AIC/Information Theoretic Approaches to Scientific Inquiry Workshop Participant, 2009

Adaptive Management in Wildlife Research Workshop Participant, 2008

Proficiency in ArcGIS, Program PRESENCE, MARK, R, SAS, Microsoft Excel, Access

Extensive backcountry, canoe, 4WD and boating experience

ORAL PRESENTATIONS

Physiography is a stronger predictor of occurrence than land use for a fully aquatic salamander. 2015. Oral Presentation. The Wildlife Society National Meeting, Winnipeg, Manitoba, Canada

Physiography is a stronger predictor of hellbender occupancy in VA than land use. 2015. Oral Presentation. 7th Hellbender Symposium, St. Louis, MO

River specific differences in occupancy and detection of Ozark hellbenders. 2013. Oral Presentation. 6th Hellbender Symposium, Chattanooga, TN

Occurrence of hellbender salamanders in the New River drainage. 2013. Oral Presentation. New River Symposium. Radford University, Radford, VA

Will we hang onto the hellbender? 2012. Invited Speaker. Virginia Tech Student

Chapter of the Wildlife Society, Virginia Tech, Blacksburg, VA.

Survival and body condition of captive-reared Ozark hellbenders released in the North Fork of the White River, Missouri. 2011. Oral presentation. 5th Hellbender Symposium, Ligonier, PA

Survival and movements of captive-reared Ozark hellbenders released in the North Fork of the White River, Missouri. 2011. Invited oral presentation. Amphibian Taxon Advisory Group, San Diego, CA

Survival and resource selection of captive-reared Ozark hellbenders released in the North Fork of the White River, Missouri. 2011. Oral presentation. Southeast Partners in Amphibian and Reptile Conservation Conference, Louisville, MS

Survival, movements and resource selection of captive-reared Ozark hellbenders released in the North Fork of the White River, Missouri. 2011. Invited oral presentation. Ozark Hellbender Working Group, Springfield, MO

Hellbenders in Missouri: historic occurrence of the amphibian chytrid fungus and movements and resource selection of captive-reared hellbenders translocated to the wild. 2010. Oral presentation. M.S. defense seminar, University of Missouri, Columbia, MO

Hellbenders in Missouri: investigating reasons for the decline and attempts at recovery. 2009. Invited oral presentation, Fisheries and Wildlife Colloquium Seminar Series. University of Missouri, Columbia, MO

Controversy and hellbender conservation: no easy solution. 2009. Invited oral presentation, FW 2002: Controversies in Wildlife Conservation. University of Missouri, Columbia, MO

General observations of captive reared Ozark hellbenders released in the North Fork of the White River, Missouri. 2009. Oral presentation. Missouri Natural Resources Conference. Tan-Tar-A Resort, Osage Beach, MO

General observations of captive reared Ozark hellbenders released in the North Fork of the White River, Missouri. 2009. Oral presentation. 4th Hellbender Symposium. Cumberland Falls State Resort Park, KY

Historic occurrence of chytridiomycosis in hellbenders from Missouri. 2009. Oral presentation. 4th Hellbender Symposium. Cumberland Falls State Resort Park, KY

OUTREACH ACTIVITIES

What is a Healthy Stream? 2014. Presenter. Interfaces of Global Change Passport to Discovery Outreach Event. Reached over 100 children and adults from Blacksburg, VA

Hellbenders, their Habitat and Adaptations. 2012. Invited presenter. Southwest Virginia Sixth Grade Farm Field Day. Reached over 400 students and 25 teachers from Holston River Conservation District, VA

Creepy and Crawly Critters: Herpetology. 2009. Invited presenter. Kids College. Missouri State University, West Plains, MO. Reached 60 middle-school aged children from West Plains, MO.

PROFESSIONAL INVOLVEMENT

Invited reviewer, *Freshwater Biology*

Invited reviewer, *Amphibia- Reptilia*

Invited reviewer, *Ecology and Evolution*

Invited reviewer, *Journal of Forestry*

North Carolina Giant Salamander Network Member, 2015-present

The Wildlife Society Member, June 2015-present

Interfaces of Global Change Graduate Student Association Member, 2013-present
(Treasurer, 2013)

Fish and Wildlife Conservation Graduate Student Association Member, 2012-present
(Treasurer, 2014 & 2015)

Ozark Hellbender Working Group Member, 2007-2012