

Matthew H. E. M. Browning

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EDUCATION

Doctor of Philosophy (2015) Department of Forest Resources & Environmental Conservation, Virginia Tech, Blacksburg, VA

Master of Environmental Science (2012) The Yale School of Forestry & Environmental Studies, Yale University, New Haven, CT

Teaching Certificate in Environmental Education (2009) State of North Carolina Department of Natural Resources, Raleigh, NC

Teaching Certificate in Middle Grades Science (2009) Western Carolina University, Cullowhee, NC

Bachelor of Arts (2005) Major: Biology, Minors: Geology and Art History, Oberlin College, Oberlin, OH, Study abroad in 2014 to University of Otago, Dunedin, New Zealand

PROFESSIONAL EXPERIENCE

Assistant Professor (2015-present) University of Illinois, Champaign, IL
Department of Recreation, Sport and Tourism in the College of Applied Health Sciences

Related Positions Held

- **Lead** (2015-present) Parks and Environmental Behavior Research Group
Health and Nature track
- **Affiliate** (2015-present) Institute for Sustainability, Energy and the Environment
Illinois Water Scholars
- **0% Assistant Professor** (2015-present) Department of Natural Resources and Environmental Sciences

Project Liaison (2013-2016) MYLES of Science, Montreat College, Montreat, NC

Program Evaluator (2012-2016) Children & Nature Network, Minneapolis, MN

Research Assistant (2012-2015) Virginia Tech, Blacksburg, VA

Student Intern (2013-2014) Community Design Assistance Center, Blacksburg, VA

Teaching Fellow (2011-2012) Yale University, New Haven, CT

Research Assistant (2010-2012) Yale University, New Haven, CT

Lead Resource Management Ranger (2007-2010) Mt. Mitchell State Park, Burnsville, NC

Backcountry Ranger (2006) Grandfather Mountain, Linville, NC

Visitor Services Intern (2005) Neal Smith National Wildlife Refuge, Prairie City, IA

Student Conservation Association Intern (2005) Arches National Park, Moab, UT

Research Assistant (2005) Kent State University, Kent, OH

Research Assistant (2004-2005) Oberlin College, OH

National Science Foundation REU Fellow (2004) Gustavus Adolphus, St Peter, MN

PEER-REVIEWED PUBLICATIONS

N.B. Prior to May, 2010, Matthew published under the name M. H. E. Mutel.

1. **Browning, M.**, Stern, M., Ardoin, N., and Heimlich, J. 2016. Factors of community support for local nature centers. *Environmental Education Research*. <http://dx.doi.org/10.1080/13504622.2016.1217397>
2. **Browning, M.**, Stern, M., Ardoin, N., Heimlich, J., Petty, R., and Charles, C. 2016. Investigating the sets of values that community members hold toward local nature centers. *Environmental Education Research*. <http://dx.doi.org/10.1080/13504622.2016.1177713>
3. **Browning, M.**, Marion, J.L., and Gregoire, T.G. 2013. Sustainably connecting children with nature: An exploratory study of nature play area visitor impacts and their management. *Journal of Landscape & Urban Planning*. 199, p. 104-112. <http://dx.doi.org/10.1016/j.landurbplan.2013.07.00>
4. Nassar, N., Barr, R., **Browning, M.**, Zhouwei, D., Friedlander, E., Harper, E., Henly, C., Kavlak, G., Kwatra, S., Jun, C., Warren, S., Yang, M., and Graedel, T. 2012. Criticality of the geological copper family. *Environmental Science & Technology*. 46, DOI: 10.1021/es203535w. Available online: <http://dx.doi.org/10.1021/es203535w>
5. **Mutel, M.**, Waugh, D., Feldmann, R., and Hubbard, K. 2006. Experimental taphonomy of *Callinectes sapidus* and cuticular controls on preservation. *Palaios*. 23:9, p. 615-623. <http://dx.doi.org/10.2110/palo.2008.p08-024r>
6. Waugh, D., Feldmann, R., Schroeder, A., and **Mutel, M.** 2006. Differential cuticle architecture and its preservation in fossil and extant *Callinectes* and *Scylla* claws. *Journal of Crustacean Biology*. 26:3, p. 271-282. <http://dx.doi.org/10.1651/S-2692.1>

EDITED BOOK CHAPTERS

7. **Mutel, M.** 2005. Hubert Robert (1733-1808): Young girls dancing around an obelisk, 1798. In Borys, S., Ed., *The Splendor of Ruins in French Landscape Painting, 1630-1800*. Allen Memorial Art Museum Press, Oberlin, OH
8. **Mutel, M.** 2005. Simon Vouet (1590-1649): The muses Urania and Calliope, 1634. In Borys, S., Ed., *The Splendor of Ruins in French Landscape Painting, 1630-1800*. Allen Memorial Art Museum Press, Oberlin, OH

THESES

9. **Browning, M.** 2015. *Nature centers in local communities: Perceived values, support factors, and visitation constraints*. Dissertation, Virginia Tech, Blacksburg, VA. <http://vtchworks.lib.vt.edu/handle/10919/54581>
10. **Browning, M.** 2012. *Sustainably connecting children with nature*. Master's Thesis, Yale School of Forestry & Environmental Studies, New Haven, CT

PEER-REVIEWED CONFERENCE PROCEEDINGS

11. **Browning, M.** 2012. The need for sustainable management of nature play areas: A survey of environmental impacts caused by children's play. In Fredman, P., Stenseke, M., Liljendahl, H., Mossing, A., and Laven, D., Ed. *The 6th International Conference on Monitoring and Management of Visitors in Rec. & Protected Areas - Proceedings*. Stockholm, Sweden. http://mmv.boku.ac.at/refbase/files/mmv6_182_183.pdf
12. **Browning, M.** 2012. Environmental impacts along informal trails and recreation sites at well-established Swedish nature play areas. In Fredman, P., Stenseke, M., Liljendahl, H., Mossing, A., and Laven, D., Ed. *The 6th International Conference on Monitoring and Management of Visitors in Rec. & Protected Areas - Proceedings*. Stockholm, Sweden. http://mmv.boku.ac.at/refbase/files/mmv6_182_183.pdf
13. Lusk, L., **Mutel, M.**, Walker, E., and Levy, F. 2009. Forest change in high elevation forests of Mt. Mitchell, North Carolina. *Proceedings from the Conference on the Ecology and Management of High-Elevation Forests in Central and Southern Appalachian Mountains*. Slatyfork, WV. http://www.nrs.fs.fed.us/pubs/gtr/gtr_nrs-p-64.pdf
14. **Mutel, M.** 2004. Experimental taphonomy of the blue crab, *Callinectes sapidus*: Experimental and cuticular controls on preservation. *Geological Society of America Abstract Programs*. 36:5, p. 65. https://gsa.confex.com/gsa/2004AM/finalprogram/abstract_75525.htm

TECHNICAL REPORTS

15. **Browning, M.**, Choi, W., Stern, M., Petty, B., Ardoin, N., and Heimlich. 2016. *Nature centers and communities summary report*. Prepared for Corkscrew Swamp Sanctuary and Blair Audubon Center, Naples FL
16. **Browning, M.**, Choi, W., Stern, M., Petty, B., Ardoin, N., and Heimlich. 2016. *Nature centers and communities summary report*. Prepared for Audubon Center at Debs Park, Los Angeles, CA
17. **Browning, M.**, Choi, W., Stern, M., Petty, B., Ardoin, N., and Heimlich. 2016. *Nature centers and communities summary report*. Prepared for Elachee Nature Science Center, Gainesville, PA
18. **Browning, M.**, Choi, W., Stern, M., Petty, B., Ardoin, N., and Heimlich. 2016. *Nature centers and communities summary report*. Prepared for the Environmental Learning Center, Vero Beach, FL
19. **Browning, M.**, Choi, W., Stern, M., Petty, B., Ardoin, N., and Heimlich. 2016. *Nature centers and communities summary report*. Prepared for Grange Insurance Audubon Center and Scioto Audubon Metro Park, Columbus, OH
20. **Browning, M.**, Choi, W., Stern, M., Petty, B., Ardoin, N., and Heimlich. 2016. *Nature centers and communities summary report*. Prepared for Audubon Greenwich Kimberlin Nature Education Center and Sanctuary, Greenwich, CT

21. **Browning, M.**, Choi, W., Stern, M., Petty, B., Ardoin, N., and Heimlich. 2016. *Nature centers and communities summary report*. Prepared for Hitchcock Nature Center, Honey Creek, IA
22. **Browning, M.**, Choi, W., Stern, M., Petty, B., Ardoin, N., and Heimlich. 2016. *Nature centers and communities summary report*. Prepared for Mitchell Lake Audubon Center, San Antonio, TX
23. **Browning, M.**, Choi, W., Stern, M., Petty, B., Ardoin, N., and Heimlich. 2016. *Nature centers and communities summary report*. Prepared for Plains Conservation Center, Aurora, CO
24. **Browning, M.**, Choi, W., Stern, M., Petty, B., Ardoin, N., and Heimlich. 2016. *Nature centers and communities summary report*. Prepared for Audubon Society of Portland Nature Sanctuary and Facilities, Portland, OR
25. **Browning, M.**, Choi, W., Stern, M., Petty, B., Ardoin, N., and Heimlich. 2016. *Nature centers and communities summary report*. Prepared for Richardson Bay Audubon Center and Sanctuary, Tiburon, CA
26. **Browning, M.**, Choi, W., Stern, M., Petty, B., Ardoin, N., and Heimlich. 2016. *Nature centers and communities summary report*. Prepared for Seven Ponds Nature Center, Dryden, MI
27. **Browning, M.**, Choi, W., Stern, M., Petty, B., Ardoin, N., and Heimlich. 2016. *Nature centers and communities summary report*. Prepared for Seward Park Audubon Center, Seattle, WA
28. **Browning, M.**, Choi, W., Stern, M., Petty, B., Ardoin, N., and Heimlich. 2016. *Nature centers and communities summary report*. Prepared for Silver Lake Nature Center, Bristol, PA
29. **Browning, M.**, Choi, W., Stern, M., Petty, B., Ardoin, N., and Heimlich. 2016. *Nature centers and communities summary report*. Prepared for Corkscrew Swamp Sanctuary and Blair Audubon Center, Naples FL
30. **Browning, M.**, Choi, W., Stern, M., Petty, B., Ardoin, N., and Heimlich. 2016. *Nature centers and communities summary report*. Prepared for the Urban Ecology Center, Milwaukee, WI
31. **Browning, M.**, Choi, W., Stern, M., Petty, B., Ardoin, N., and Heimlich. 2016. *Nature centers and communities summary report*. Prepared for the Wilderness Center, Wilmot, OH
32. **Browning, M.**, Choi, W., and Charles, C. 2016. *Six month changes in evaluative beliefs about the 2015 ING Summit*. Prepared for the Brandwein Institute, Milford, PA
33. **Browning, M.**, Choi, W., and Charles, C. 2016. *Goal achievement and contribution of factors for success: Interim report on post-survey results from the 2015 North American Inspiring a New Generation Summit*. Prepared for the Brandwein Institute, Milford, PA
34. **Browning, M.**, Choi, W., and Charles, C. 2015. *Factors of success, personal motivations, and group goals for the 2015 Inspiring a New Generation Summit*. Prepared for the Brandwein Institute, Milford, PA

35. **Browning, M.** 2014. *Legacy Camp evaluation: Results from 2014*. Prepared for the Children & Nature Network, Minneapolis, MN. <https://uofi.box.com/s/2z3dg0wh29es924ho2tq4gk3zd49t2dh>
36. Gilboy, E., Browning, L., Jessup, J., Wu, S., and **Browning, M.** 2014. *Greendale outdoor classroom & educational trail*. Prepared for Greendale Elementary School, Abingdon, VA
37. Gilboy, E., Browning, L., **Browning, M.**, Walker, H., and Crump, L. 2014. *Scenic River evaluation projects: Cranesnest and Tye rivers*. Prepared for the Virginia Department of Conservation & Recreation, Richmond, VA
38. Gilboy, E., Browning, L., **Browning, M.**, and Crump, L. 2014. *Clinch Scenic River report: Tazewell county*. Prepared for the Virginia Department of Conservation & Recreation, Richmond, VA
39. Gilboy, E., Browning, L., **Browning, M.**, Dunn, M., and Walker, H. 2014. *Waynesboro Ridgeview Park, greenway, and trailhead conceptual design*. Prepared for the City of Waynesboro, VA
40. **Browning, M.** 2012. *Advancing sustainable land management to connect children with nature*. Prepared for the American Swedish Institute, Minneapolis, MN
41. Browning, L., **Browning, M.**, Decker, M., and Smith, S. 2011. *Camp property management plan*. Prepared for the Connecticut Forest & Parks Association, Rockfall, CT
42. Arthur, T., **Browning, M.**, Cook, L., Martin, R., Saleh, T., and Martinez, J. 2010. *Natural Leaders Network toolkit*. Children & Nature Network, Minneapolis, MN. <http://www.childrenandnature.org/learn/training/toolkits/>
43. **Mutel, M.** 2010. *Research hints forest improving*. The Stewart, North Carolina Division of Parks and Recreation, Raleigh, NC. 24:1, p. 11

GRANTS AND CONTRACTS

- 2016-2019. **Browning, M.**, Kuo, M., Greenberg, J., and van Den Eeden, S. *Urban forestry's return on investment: Tying residential nature to health care expenditures*. 2016 U.S Forest Service National Urban and Community Forestry Challenge Cost-Share Grant Program. \$278,383 awarded + \$369,169 cost-share match (\$647,552 total project cost)
- 2016-2017. **Browning, M.**, LaValle, S., and Mimnaugh, K. *The technology of healing: Exploring simulated natural environments in virtual reality for therapeutic applications*. The Center on Health, Aging, and Disability Pilot Grant. \$20,000
2016. **Browning, M.** *Connecting MBDH to health insurance company big data*. Midwest Big Data Hub Seed Grant. \$7,000
2016. **Browning, M.**, & van Riper, C., & Browning, L. *Investigating the human dimensions of aquatic invasive species part II: A behavioral mapping study*. National Great Rivers Research and Education Center Internship Program. \$6,500

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2016. van Riper, C., **Browning, M.**, & Browning, L. *Investigating the human dimensions of aquatic invasive species part I: A vignette survey design*. National Great Rivers Research and Education Center Internship Program. \$6,500
- 2013-2016. Shuman, D., Sachs, S., and **Browning, M.** *Hiking MYLES of Science*. Burroughs Wellcome Fund Science Enrichment Award. \$178,550
- 2012-2017. Kuo, F., Westphal, L., and **Browning, M.** *Hierarchical linear modeling of green and school performance*. U.S. Forest Service Northern Research Service Joint Venture Agreement with University of Illinois at Urbana-Champaign. \$19,757
2012. Martinez, J., and **Browning, M.** *Natural Leaders Network Legacy Camp Continuation Grant*. The North Face. \$75,000
- 2012-2013. **Browning, M.**, and Arthur, T. *Appalachian Trail Millennial Youth Led Expeditions Planning Grant*. U.S. Fish & Wildlife Service and National Park Service. \$16,000
2011. **Browning, M.** *Berkley Conservation Scholarship*. Yale School of Forestry & Environmental Studies. \$6,000
2011. **Browning, M.** *Advancing sustainable land management to connect children with nature*. The American Swedish Institute Malmberg Scholarship for Study in Sweden. \$10,000
2011. Martinez, J. and **Browning, M.** *Natural Leaders Network Legacy Camp Continuation Grant*. The North Face. \$25,000
- 2011-2012. **Browning, M.** *Measuring possible concerns about bringing children to nature*. Clemson University Conference on the Value of Play Research Seed Grant. \$3,000
- 2011-2012. **Browning, M.**, and Arthur, T. *Appalachian Trail Millennial Youth Led Expeditions Youth Engagement Grant*. Outdoor Foundation. \$2,500

FELLOWSHIPS AND AWARDS

- Citizen Science Engagement Award**. 2014. Virginia Tech
- Park Break Fellow**. 2012. National Park Service, U.S.G.S., and the George Wright Society
- Malmberg Fellow**. 2012. American Swedish Institute
- Best Presenter Award**. 2012. Yale School of Forestry & Environmental Studies
- Grad Research Fellowship Program Honorable Mention**. 2011. National Science Foundation
- Featured Article Award**. 2008. BioOne

SCHOLARSHIPS

- Scholars Travel Fund Award**. 2016. Travel support to NAAEE Conference in Madison, WI. University of Illinois at Urbana-Champaign Office of the Vice Chancellor for Research
- CHAD Travel Fund Award**. 2015. Travel support to NAAEE Conference in San Diego, CA. University of Illinois at Urbana-Champaign Center for Health, Aging, and Disability
- Scholars Travel Fund Award**. 2015. Travel support to NAAEE Conference in San Diego, CA. University of Illinois at Urbana-Champaign Office of the Vice Chancellor for Research

Stapp Scholarship. 2014. Travel support to NAAEE Conference in Ottawa, Canada. North American Association for Environmental Education

George Melendez Wright Travel Scholarship. 2013. Travel support to GWS Conference in Denver, CO. George Wright Society

Stapp Scholarship. 2012. Travel support to NAAEE Conference in Oakland, CA. North American Association for Environmental Education

Stapp Scholarship. 2011. Travel support to NAAEE Conference in Raleigh, NC. North American Association for Environmental Education

IMCL Scholarship. 2010. Travel support to International Making Cities Liveable Conference in Charleston, SC. International Making Cities Liveable

HopeLab Scholarship. 2010. Travel support to Playworks Conference in New York, NY. Playworks

MEDIA REFERENCES TO RESEARCH

Marris, E. 2014. Let kids run wild in the woods. *Slate*, May 2014. http://www.slate.com/articles/health_and_science/science/2014/05/kid_play_zones_in_parks_leave_no_trace_inhibits_fun_and_bonding_with_nature.single.html

Marris, E. 2014. Bringing the fun back to the woods. *The Dallas Morning News*, Jun. 2014. <http://www.dallasnews.com/opinion/commentary/2014/06/27/bringing-the-fun-back-to-the-woods>

Kwok, R. 2013. Kids damage 'nature play areas.' *Conservation This Week*, Aug. 2013. <http://conservationmagazine.org/2013/08/kids-damage-nature-play-areas/>

Gibbons, W. 2012. Develop some natural play areas for children. Savannah River Ecology Laboratory. <http://srel.uga.edu/outreach/ecoviews/ecoview121202.htm> Republished in the ECOVIEWS, Tuscaloosa News, Dec. 2, 2012.

Wells, C., Kauffman, G., Ulrey, C., Menges, E., Rock, J., Mutel, M., and Pope, J. Aug., 2008. Botanists blitz area cliffs for endangered plant. Asheville Field Office Press Releases, U.S. Fish and Wildlife Service, Asheville, NC. <https://www.fws.gov/asheville/htmls/media/2008-08-pressreleases.html>

TEACHING EXPERIENCE

Instructor of Record

RST 503: Advanced Research Methods, UIUC (Online, Summer 2016)

RST 370: Research Methods, UIUC (Spring 2016)

RST 429: Contemporary Issues in Leisure Services, UIUC (Fall 2015)

FOR 3524: Environmental Interpretation, Virginia Tech (Spring 2014)

Teaching Assistant

FOR 3574: Environmental Education Service Learning, Virginia Tech (Fall 2013)

FOR 3524: Environmental Interpretation, Virginia Tech (Spring 2013)

FOR 3574: Environmental Education Service Learning, Virginia Tech (Fall 2012)

EEB 123L: Principles of Evolution, Ecology, and Behavior Lab, Yale (Spring 2012)

CHEM 116L: General Chemistry Lab, Yale (Fall 2011)

EEB 123L: Principles of Evolution, Ecology, and Behavior Lab, Yale (Spring 2011)

Guest Lecturer

RST 502: Critical Issues in Recreation and Park Management, UIUC (Fall 2016)

RST 101: Orientation to Leisure Studies, UIUC (Spring 2016)

RST 120: Foundations of Community Recreation, UIUC (Spring 2016)

RST 340: Facility Management, UIUC (Spring 2016)

RST 217: Public Recreation, UIUC (Fall 2015)

FOR 3574: Environmental Education Service Learning, Virginia Tech (Fall 2013)

FOR 3524: Environmental Interpretation, Virginia Tech (Spring 2013)

FOR 3574: Environmental Education Service Learning, Virginia Tech (Fall 2012)

EEB 123: Principles of Evolution, Ecology, and Behavior, Yale (Spring 2012)

EEB 123: Principles of Evolution, Ecology, and Behavior, Yale (Spring 2011)

Instructor

Natural Leaders Legacy Camp, Shepherdstown, WV (2014)

Natural Leaders Legacy Camp, Bainbridge Island, WA (2013)

Natural Leaders Legacy Camp, Harpers Ferry, WV (2011)

North Carolina Park Ranger Advanced Interpretation Trainings, Raleigh, NC (2009-2010)

Toe River Valley Festival, Celo, NC (2009-2010)

Mount Mitchell State Park, Burnsville, NC (2007-2010)

Canon America Envirothon, Asheville, NC (2009)

Muddy Sneakers, Brevard, NC (2008-2009)

Parkway Elementary School, Boone, NC (2006-2007)

Neal Smith National Wildlife Refuge, Prairie City, IA (2006)

Arches National Park, Moab, UT (2006)

Families Rediscovering Eclectic Education, Oberlin, OH (2005)

INVITED TALKS

1. **Browning, M.** *How might contact with nature promote human health?* Oct. 2016. East Tennessee State University Environmental Health Seminar series, Johnson City, TN
2. van Riper, C., and **Browning, M.** *A guide for understanding the social sciences.* May 2016. National Great Rivers Research & Education Center Summer Internship Short Course, Alton, IL
3. **Browning, M.**, Petty, B., Stern, M., Ardoin, N., and Heimlich, J. Dec. 2015. *A national study of the value of nature centers: Discussing the broader implications for other community-based environmental organizations.* Webinar hosted by the National Audubon Society
4. **Browning, M.**, Davis, M. E., Migus, L. H., and Sullivan, M. Nov. 2015. *Measuring and articulating the value of museums and libraries.* Institute for Museum and Library Services Focus conference, New Orleans, LA
5. **Browning, M.**, Petty, B., Stern, M., Ardoin, N., and Heimlich, J. Nov. 2015. *The value of nature centers to local communities.* Webinar hosted by the National Audubon Society

6. **Browning, M.** Sep. 2015. *Health and nature*. Parks and Environmental Behavior Research Group seminar, Champaign, IL
7. **Browning, M.**, Petty, B., Stern, M., Ardoin, N., and Heimlich, J. Aug. 2015. *The value of nature centers to local communities*. Association of Nature Center Administrators Summit, Gainesville, GA
8. **Browning, M.**, Browning, L., Arthur, T. Apr. 2014. *MYLES of Science*. Appalachian Trail Conservancy Regional Partner Meeting, Pembroke, VA
9. **Browning, M.**, Mar. 2014. *Giving guided interpretative hikes*. Virginia Master Naturalists workshop, Blacksburg, VA
10. **Browning, M.** May 2013. *Connecting children with nature: Why you should care and what you can do*. American Swedish Institute Midsommer Fest, Minneapolis, MN
11. **Browning, M.** Feb. 2013. *Environmental impacts on and sustainable management of nature play areas*. The Conference on the Value of Play, Clemson, SC
12. **Browning, M.**, Browning, L., Arthur, T. Nov. 2012. *MYLES of Science*. Appalachian Trail Conservancy Regional Partner Meeting, Waterbury Center, VT
13. **Browning, M.**, Browning, L., Arthur, T. Oct. 2012. *MYLES of Science*. Appalachian Trail Conservancy Regional Partner Meeting, Asheville, NC
14. **Browning, M.** Jul. 2012. *The need for nature play areas in protected natural areas and how to manage them*. Museum of Natural Science, Raleigh, NC
15. **Browning, M.** May 2012. *Expanding nature opportunities for children: Encouraging and managing children's play in public forests*. United States Forest Service, Washington, D.C.
16. **Browning, M.** Feb. 2012. *Managing natural lands for connecting children with nature*. The Conference on the Value of Play, Clemson, SC
17. Martinez, J. and **Browning, M.** Mar. 2010. *Natural Leaders Network*. North Carolina Children & Nature Coalition Conference, Asheboro, NC
18. Hodges, A., Jackson, C., **Mutel, M.**, and Arthur, T. Dec. 2009. *Panel on youth in natural resources*. National Conservation Training Center Youth in Natural Resources Working Meeting, Shepherdstown, WV
19. Ostfeld, J., Fanning, C., Rodriguez, J., **Browning, M.**, and Prouty, S. Sep. 2009. *Sowing the seeds for a greener future: Preparing youth for the green economy*. Good Jobs Green Jobs Conference, Washington, D.C.
20. **Browning, M.** May 2009. *Cooking and foraging Southern Appalachian wild edibles*. Grandfather Mountain Naturalist Weekend, Linville, NC
21. **Browning, M.** May 2009. *Identifying Western North Carolina flora and fauna*. Environmental Educators of North Carolina Section Gathering, Hot Springs, NC
22. **Browning, M.** May 2008. *Cooking and foraging Southern Appalachian wild edibles*. Blue Ridge Discovery Weekend, Little Switzerland, NC

CONTRIBUTED PRESENTATIONS

23. **Browning, M.** Oct. 2016. *Job opportunities in parks and protected areas*. Parks and Environmental Behavior Research Group seminar, Champaign, IL
24. **Browning, M.** Oct. 2016. *Technology of healing: Exploring simulated natural environments for therapeutic applications*. Poster presentation at the North American Association for Environmental Education Conference, Madison, WI
25. Zint, M., Ardoin, N., Baek, J., **Browning, M.**, Chase, D., Ernst, J., Heimlich, J., Li, C., Marcinkowski, T., McCann, E., Monroe, M., Simmons, B., and Stevenson, K. Oct. 2016. *Evaluation clinic*. Workshop at the North American Association for Environmental Education Conference, Madison, WI
26. Kayser, R., van Riper, C., **Browning, M.**, Merrett, G., Browning, L., Stewart, W., and Suski, C. Aug. 2016. *Norms and human nature relationships determine boater behaviors that affect the spread of aquatic invasive species*. Presentation and poster at the National Great Rivers Research & Education Center Internship Symposium, East Alton, IL
27. Merrett, G., **Browning, M.**, van Riper, C., and Kayser, R. Aug. 2016. *Factors that demotivate recreationalists from engaging in pro-environmental behaviors*. Presentation and poster at the National Great Rivers Research & Education Center Internship Symposium, East Alton, IL
28. Mimnaugh, K., and **Browning, M.** Jun. 2016. *The technology of healing: Exploring simulated natural environments in virtual reality for therapeutic applications*. Poster presentation at the International Symposium on Society and Resource Management, Houghton, MI
29. **Browning, M.**, Browning, L., Chalip, L., van Riper, C., Stewart, W., and Mimnaugh, K. Apr. 2016. *Simulating nature, enhancing health: Virtual reality proposal for the Design Center*. Poster presentation at the University of Illinois Design Center Lightning Symposium, Champaign, IL
30. **Browning, M.**, and Mimnaugh, K. Apr. 2016. *Simulating nature, enhancing health: Exploring therapeutic applications of natural environments in virtual reality, and opportunities for the Design Center*. Poster presentation at the Chittenden Symposium, Champaign, IL
31. van Riper, C.J., **Browning, M.**, Stewart, W., Suski, C., and Browning, L. Mar. 2016. *Minimizing the spread of aquatic nuisance species in Illinois: A study of factors that shape angler behavior*. Paper presentation to the Great Lakes Fishery Commission, Ann Arbor, MI
32. **Browning, M.** Mar. 2016. *The value of nature centers in local communities*. Presentation at the Environmental Education Association of Illinois annual conference, Canton, IL
33. **Browning, M.**, Petty, B., Stern, M., Ardoin, N., and Heimlich, J. Oct. 2015. *The ways in which communities value nature centers*. Presentation at the North American Environmental Education Association annual conference, San Diego, CA

34. **Browning, M.**, Petty, B., Stern, M., Ardoin, N., and Heimlich, J. Oct. 2015. *The value of nature centers to communities*. Presentation at the North American Environmental Education Association Research Symposium, San Diego, CA
35. Dahlstrom, T., Reuter, J., Troy, N., Mokrycki, K., and **Browning, M.** (moderator) Sep. 2015. *Recreation and tourism career panel*. Panel discussion at the Sapora Symposium, Champaign, IL
36. **Browning, M.**, Petty, B., Stern, M., Ardoin, N., and Heimlich, J. Aug. 2015. *Discussion on the value of nature centers to communities*. Presentation at the Association of Nature Center Administrators Summit, Gainesville, GA
37. **Browning, M.** Jul. 2015. *MYLES of Science: Engaging high school students along the AT through peer-led citizen science research and low-impact backpacking*. Presentation at the Appalachian Trail Conservancy Biennial Conference, Winchester, VA
38. Roberts, N., and **Browning, M.** (moderator) Mar. 2015. *Outside your door: Urban youth media producers create new connections to the land*. Moderated panel at the George Wright Society Conference on Parks, Protected Areas, and Cultural Sites, Oakland, CA
39. Villabla, F., and **Browning, M.** (moderator) Mar. 2015. *Transformative and inclusive: Rethinking youth engagement in nature and conservation*. Moderated presentation at George Wright Society Conference on Parks, Protected Areas, and Cultural Sites, Oakland, CA
40. **Browning, M.**, Thomsen, J., Johnson, B., Ballard, H., Wojcik, D., Morris, J., Machlis, G., English, K., Ramey-Renk, J., and Brownlee, M. Mar. 2015. *Where am I going and how do I get there? Honest conversations about conservation careers*. Roundtable discussion at the George Wright Society Conference on Parks, Protected Areas, and Cultural Sites, Oakland, CA
41. **Browning, M.** Mar. 2015. *The value of nature centers in communities*. Presentation at the Virginia Tech Graduate Student Symposium, Blacksburg, VA
42. **Browning, M.** Oct. 2014. *How and why different populations visit/support nature centers differently*. Poster presentation at the North American Association for Environmental Education Research Symposium, Ottawa, Ontario
43. **Browning, M.** Jul. 2014. *An introduction to social psychology and behavior theory*. Presentation at the Children & Nature Network's Legacy Camp, Shepherdstown, WV
44. **Browning, M.** Mar. 2014. *Perceived and actual valuation of nature centers; And does it matter?* Presentation at the Virginia Tech Graduate Student Symposium, Blacksburg, VA
45. van Riper, C., Knudten, C., **Browning, M.**, Rose, N., Reed, S., and Dennis, K. Mar. 2013. *Supporting experiential learning in national parks: The 2012 Delaware Water Gap National Recreation Area Park Break program*. Sharing circle at the George Wright Society Conference on Parks, Protected Areas & Cultural Sites, Denver, CO

46. **Browning, M.** Oct. 2012. *Environmental impacts at nature play areas and suggestions for sustainable management*. Presentation at the North American Association for Environmental Education annual conference, Oakland, CA
47. **Browning, M.** Aug. 2012. *Leadership IQ*. Presentation at the Children & Nature Network's Legacy Camp, Shepherdstown, WV
48. **Browning, M.** Aug. 2012. *The need for sustainable management of nature play areas: A survey of environmental impacts caused by children's play*. Presentation at the International Conference on Monitoring and Management of Visitors in Recreation and Protected Areas, Stockholm, Sweden
49. **Browning, M.** Aug. 2012. *Environmental impacts along informal trails and recreation sites at well-established Swedish nature play areas*. Presentation at the International Conference on Monitoring and Management of Visitors in Recreation and Protected Areas, Stockholm, Sweden
50. **Browning, M.** Apr. 2012. *'Best' guidelines for connecting children with nature: An assessment of environmental impacts at nature play areas and suggestions for sustainable management*. Presentation at the Yale School of Forestry & Environmental Studies Graduate Student Research Colloquium, New Haven, CT
51. **Browning, M.** Apr. 2012. *Expanding nature opportunities for children: Encouraging and managing nature play in public forests*. Presentation at the North Eastern Society of American Foresters, Amherst, MA
52. **Browning, M.**, and Lamers, V. Mar. 2012. *Securing the future of land conservation: Connecting children with nature on lands under easement*. Presentation at the Connecticut Land Conservation Conference, Middletown, CT
53. **Browning, M.** Oct. 2011. *Assessing management and practices of natural play areas*. Presentation at the North American Association for Environmental Education Research Symposium, Raleigh, NC
54. **Browning, M.**, Marion, J., Gregoire, T., and Asperdt, A. Jul. 2011. *Developing protocols for managing unstructured children's play in natural areas*. Poster presentation at the International Play Association Conference, Cardiff, Wales
55. **Browning, M.** Mar. 2011. *Assessing best management practices of natural play areas*. Presentation at the Association for the Study of Play Conference, Atlanta, GA
56. Lusk, L., **Mutel, M.**, Walker, E., and Levy, F. May 2009. *Forest change in high elevation forests of Mt. Mitchell, North Carolina*. Presentation at the Conference on the Ecology and Management of High-Elevation Forests in Central and Southern Appalachian Mountains. Slatyfork, WV
57. **Mutel, M.**, Waugh, D., Feldmann, R., and Parsons-Hubbard, K. Nov. 2004. *Experimental taphonomy of the blue crab, Callinectes sapidus: Experimental and cuticular controls on preservation*. Presentation at the Geological Society of America Conference, Denver, CO

PROFESSIONAL MEMBERSHIPS

Academy of Leisure Sciences
American Evaluation Association
Environmental Education Association of Illinois
George Wright Society
National Association for Interpretation
North American Association of Environmental Education

JOURNAL REVIEWER

Environmental Education Research
Illuminaire: A Student Journal in Recreation, Parks, and Tourism Studies
International Journal of Environmental Research and Public Health
Journal of Environmental Planning and Management
Leisure Sciences
Society and Natural Resources

STUDENTS MENTORED

Doug Becker (2016-present) UIUC NRES PhD student: Advisor
Kangjae Lee (2016-present) UIUC GEOG PhD student: RA Advisor
Grace Merrett (2016) UIUC RST undergraduate student: Internship supervisor
Katherine Mimnaugh (2015-present) UIUC NRES master's student: Advisor
Wonjun Choi (2015-present) UIUC RST doctoral student: RA supervisor

SELECTED PUBLIC AND UNIVERSITY SERVICE

UIUC RST Graduate Student Committee (2015-present) Champaign, IL
Inspiring a New Generation Evaluator (2015-2016) Shepherdstown, WV
Graduate Student Representative (2013-2015) GWS Board of Directors, Hancock, MI
Inner City Outings Trip Leader (2010-2012) Sierra Club, New Haven, CT
Trip Leader (2008-2010) Friends of the Mountains to Sea Trail, Raleigh, NC
Stewardship Volunteer (2007-2010) S. Appalachian Highlands Conservancy, Asheville, NC
Land Monitor Volunteer (2006-2007) Blue Ride Conservancy, Boone, NC
Outing Club President (2003-2005) Oberlin College, OH

SELECTED CERTIFICATIONS AND TRAININGS

UIUC IHSI NIH Grant Writing Workshop program (2016) Champaign, IL

Leave No Trace Trainer (2014) Blacksburg, VA

Playworker (2011) Asheboro, NC

Special Peace Officer (2007) Raleigh, NC

Emergency Medical Technician - Basic (2008) Marion, NC