

Curriculum Vitae

James M. Yoder

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Work Address:
Eastern Mennonite University
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450 Maryland Ave.
Harrisonburg, VA 22801
540-421-9912

EDUCATION

- 2004 **Ph.D.** Department of Evolution, Ecology, and Organismal Biology, The Ohio State University, Columbus, Ohio
- 2001 **M.S.** Department of Evolution, Ecology, and Organismal Biology, The Ohio State University, Columbus, Ohio
- 1994 **B.S.** Honors, Biology, Eastern Mennonite University, Harrisonburg, Virginia
Minors: Computer Science, English

PROFESSIONAL EXPERIENCE

- 2019 - present PROGRAM DIRECTOR, BIOLOGY, CHEMISTRY, BIOCHEMISTRY, CLINICAL LAB SCIENCE & ENVIRONMENTAL SCIENCE
Eastern Mennonite University, Harrisonburg, VA
- 2008 - present PROFESSOR OF BIOLOGY
Eastern Mennonite University, Harrisonburg, VA
- 2005 - present CURATOR, D. Ralph Hostetter Museum of Natural History, Eastern Mennonite University, Harrisonburg, VA
- 2022 – present HONORARY PROFESSOR
Macquarie University, Sydney, Australia
- 2021 CROSS-CULTURAL LEADER, Navajo Nation, 3-week Summer Program
Eastern Mennonite University, Harrisonburg, VA
- 2017 CROSS-CULTURAL LEADER, Navajo Nation, 3-week Summer Program
Eastern Mennonite University, Harrisonburg, VA
- 2015 CROSS-CULTURAL LEADER, New Zealand, 6-week Summer Program
Eastern Mennonite University, Harrisonburg, VA
- 2012 CROSS-CULTURAL LEADER, New Zealand, Fall Semester Program
Eastern Mennonite University, Harrisonburg, VA
- 2010 CROSS-CULTURAL LEADER, New Zealand, 6-week Summer Program
Eastern Mennonite University, Harrisonburg, VA
- 2009 – 2015 QEP IMPLEMENTATION TEAM CHAIR
Eastern Mennonite University, Harrisonburg, VA
- 2008, '11-14, '20 AP ENVIRONMENTAL SCIENCE READER, Educational Testing Service
- 2005 - 2007 ASSOCIATE PROFESSOR OF BIOLOGY
Eastern Mennonite University, Harrisonburg, VA
- 2003 - 2004 ASSISTANT PROFESSOR OF BIOLOGY
Eastern Mennonite University, Harrisonburg, VA
- 1999 - 2002 INSTRUCTOR OF BIOLOGY

Eastern Mennonite University, Harrisonburg, VA

- 1996-1999 GRADUATE TEACHING ASSISTANT, Department of Zoology, Ohio State University, Columbus OH *Courses taught: Mammalogy, Evolution (Honors), Theoretical Ecology*
- 1994-1995 RESEARCH ASSISTANT AND FIELD TECHNICIAN, Blandy Experimental Farm, Department of Environmental Science, University of Virginia, Charlottesville, VA.
- 1993-1994 RESEARCH INTERN, Molecular Biology Laboratory, Merck Inc., Elkton VA.

GRANTS & AWARDS

- 2024 NSF-IRES grant Track I: Tephritid fruit fly Multidisciplinary Australian Research Collaboration for Biosecurity, 2022-2024 (#1854034). \$298,700. Principal Investigator (PI) for year three of the grant (Matt Siderhurst PI for years 1-2). Also led groups of 6-7 undergraduate research students to Australia to collaborate with Australian Department of Agriculture and Fisheries researchers in North Queensland from 2022-2024.
- 2019 Virginia Department of Environmental Quality, 2018-19 Citizen Monitoring Grant. Funded w/ Doug Graber Neufeld, \$3,890, August 2019
- 2018 “Wood Turtle (*Glyptemys insculpta*) Survey and Population Assessment of Slate Lick-Shoemaker River Area, Rockingham County, VA” – Contract with the Virginia Department of Natural Heritage and the U.S. National Forest Service, \$2,365 (3/18)
- 2016 J.M. Yoder. “Bennett’s Run Stream Restoration Riparian Planting Project” – Virginia Trees for Clean Water Grant from the Virginia Department of Forestry for \$3,600 (10/16)
- 2014 J. M. Yoder, D. Graber Neufeld, and B. Wagner. “Changing Agricultural Impacts on Shenandoah Headwaters”— Chesapeake Bay Stewardship Fund Implementation Grant from the National Fish and Wildlife Foundation for \$200,000 (9/14)
- 2008 Cessna, S. and J. M. Yoder. “Acquisition of Instrumentation to Support Integrated Research and Teaching in Interdisciplinary Environmental Plant Biology”—A National Science Foundation – Major Research Instrumentation grant for \$103,130 (9/08)
- 2006 Faculty Release Time Grant (6 SH and \$500), Eastern Mennonite University
- 2006 Quality Service Award, Eastern Mennonite University, Harrisonburg, VA
- 1998 Sidney Pressey Honors Course Enrichment Grant, University Honors Center, Ohio State University, Columbus OH
- 1998 Graduate Teaching Award, Department of Zoology, Ohio State University, Columbus OH
- 1995-96 University Fellowship, Ohio State University, Columbus OH

RESEARCH & PROFESSIONAL INTERESTS

Jim is the current program director for the Biology, Biochemistry, Chemistry, Medical Laboratory Sciences and Environmental Science programs. He advises Environmental Science and biology majors and primarily teaches in the areas of evolution, ecology and conservation biology. He earned his Ph.D. from the Ohio State University and his primary research interests include conservation biology, landscape ecology, behavioral ecology and animal movement. Early research focused on population and behavioral responses of species to habitat fragmentation. His dissertation research at The Ohio State University was in collaboration with the Ohio Division of Wildlife and examined the effects of fragmented habitat on the dispersal and population dynamics of ruffed grouse in southeastern Ohio.

In 2006 he began a long-term collaborative study working with Shenandoah National Park research botanist, Wendy Cass. The research was conducted by 2-3 EMU undergraduates per year (including summers) as well as SNP personnel. The project includes intense on-site field sampling as well as mapping and analysis of exotic plant spread and impact using GIS. The project addressed two specific research questions that focused on the exotic plants invading the Shenandoah National Park: 1) What is the rate of spread of the three most threatening exotic species beginning to invade the Big Meadows Swamp

Natural Heritage area and 2) What is the impact of these exotics on the continued viability of the eight rare plant species located within the area?

In the fall of 2014, Jim began a stream restoration and monitoring project in the German River and Crab Run watersheds near Bergton, VA. This was a collaborative project with initial funding provided by a grant from the National Fish and Wildlife Foundation grant that included partnering with EMU colleague Dr. Doug Graber Neufeld, Ecosystem Services, LLC., Tom Akre at the Smithsonian Conservation Biology Institute and EMU's Center for Justice and Peace. The immediate goals of the project were to conduct a watershed assessment and restore two sections of stream as well as assess potential strategies to encourage adoption of best management practices by community members. His students specifically worked on stream macroinvertebrate monitoring of restoration impacts and long-term population trends of Wood turtles in the watersheds.

In 2018 he has become involved in nitrogen footprint tracking, becoming a member of the Nitrogen Footprint Working Group centered at the University of New Hampshire Center for Sustainability and the University of Virginia. Current projects involve tracking carbon and nitrogen footprints at both EMU and for the City of Harrisonburg and working on footprint reduction scenarios and goal setting.

Most recently, in the fall of 2021, he joined colleague Dr. Matt Siderhurst to collaborate on the study of movement of Tephritid fruit flies and other insects using harmonic radar technology. In the summers of 2022, 2023 & 2024 he accompanied 20 undergraduate students to Australia as part of Dr. Siderhurst's NSF IRES grant to continue the work harmonic radar work on Queensland fruit flies with researchers at Macquarie University in Sydney, James Cook University in Townsville, NSW and researchers at the Department of Agricultural and Fisheries in Mareeba, NSW. Jim and Matt are continuing to collaborate on various projects tracking insect movements using harmonic radar to better model outbreaks and dispersal of agricultural pests.

Jim is also heavily involved in study abroad education and has led inter-cultural trips to New Zealand in the summer of 2010 (6 weeks), fall 2012 (full semester) and summer of 2015 (6 weeks) with his wife Kathy Yoder. The trips focused on sustainability issues related to tourism, natural resource conservation, and agriculture as well as indigenous Maori culture, restorative justice and New Zealand history. He also co-led two 3-week summer cross-cultural trip to Navajo Nation in Arizona focusing on similar themes with the Navajo and Apache peoples, first with Dr. Gloria Rhodes (2017) and most recently with Kathy Yoder (2021). In March of 2023 he led a 3-week alumni cross-cultural trip to New Zealand and in summer of 2024 he will co-lead a 3 week inter-cultural trip to Washington DC focusing on Urban Sustainability and Environmental Justice with WCSC faculty Ann Butwell. In addition to inter-cultural trips, Jim has co-led three research trips to Sydney and North Queensland, Australia with 20 students from EMU, Bridgewater, and JMU over three years.

In addition to teaching, Jim is the curator of the D. Ralph Hostetter Museum of Natural History and the faculty resource person and chair of the implementation team for the Peace with Creation Quality Enhancement Plan (QEP), a 5-year initiative drawing together EMU students, faculty and staff around the theme of sustainability and how it relates to Anabaptist beliefs concerning creation care, peace and social justice.

PUBLICATIONS

- Hurst, A.L., O'Brien, A.L., Miller, N.D., Peachey, A.M.W., Yoder, J.M., De Faveri, S.G., Cheesman, J., Manoukis, N.C. and Siderhurst, M.S., 2024. Tracking and modeling the movement of Queensland fruit flies, *Bactrocera tryoni*, using harmonic radar in papaya fields. *Scientific Reports*, 14(1), p.17521. <https://doi.org/10.1038/s41598-024-67372-4>
- Dukes, E., E. Castner, A. Leach, J. N. Galloway, J. Lloret, S. Messenger, A. Zheng, S. Baumgarn, J. Yoder, E. Royal, D. Wisteman. 2021. Introducing the nitrogen footprint in SIMAP: A review of improvements in nitrogen footprint methodology for institutions. *Sustainability and Climate Change* 14: 415-423. <http://doi.org/10.1089/scc.2021.0048>
- Yoder, J.M and B.J. Miller. 2014. Using Accreditation to Foster Education for Sustainability in Higher Education: The Implementation of the Peace with Creation Project at Eastern Mennonite University, In H.E. Muga and K. D. Thomas (eds). *Cases on Pedagogical Innovations for Sustainable Development*. New York: IGI Global, U.S.
- Grabner Neufeld, D.S., and Yoder, J. 2011. The Role of Feeding Adaptations in Resource Competition between Invasive and Native Clams. Proceedings of ABLE. Pages 78-87, in Tested Studies for Laboratory Teaching, Volume 32 (K. McMahon, Editor). Proceedings of the 32nd Conference of the Association for Biology Laboratory Education (ABLE), 383 pages.
- Yoder, J.M, C.A. Yoder, C.A. Devadason, and W. Cass. 2007. The Use of GIS in Determining the Spread and Impact of Invasive Plant Species within a Wetland Community (Abstract) *Virginia Journal of Science* 58
- Yoder J.M. 2006. How the story of Jesus and the life of the church has shaped my interactions with students and my teaching practices. Proceedings of the 2006 Mennonite University Faculty Conference. Mennonite Education Agency.
- Yoder J. M., D. A. Swanson, E. A. Marschall. 2004. The Cost of Dispersal: Predation as a function of movement in Ruffed grouse. *Behavioral Ecology* 15: 469-476.

- Connor, E.F., J. M. Yoder, A. C. Courtney. 2000. Individuals-area relationships: The relationship between animal population density and area. *Ecology* 81:734-748
- Connor, E.F., J.M. Yoder, J.A. May. 1999. Density-related predation by *Poecile carolinensis* on the Leaf-Mining Moth, *Cameraria hamadryadella* at three spatial scales. *Oikos* 87:105-112
- Yoder, J.M., J.L. Dooley, J.F. Zawacki, M.A. Bowers. 1996. Female aggression in *Microtus pennsylvanicus*: Arena trials in the field. *American Midland Naturalist* 135: 1-8.

PRESENTATIONS

- Movements of male and female colony-reared *Bactrocera jarvisi* tracked using harmonic radar in northern Queensland papaya fields. Adesola Johnson, Allysen Welty-Peachey, Ethan Moses, Meredith Lehman, James Yoder, Matthew Siderhurst, Jodie Cheesman and Stefano De Faveri. Eastern Branch Meeting, Entomological Society of America, March 2024
- Harmonic radar tracking of tephritid fruit fly natural movement. Ethan Moses, Allysen Welty Peachey, Stefano De Faveri, Jodie Cheesman, Matthew Siderhurst, James Yoder, Adesola Johnson and Meredith Lehman. Eastern Branch Meeting, Entomological Society of America, March 2024
- Assessing the persistence of directional bias in the movement of Queensland fruit flies, *Bactrocera tryoni*, using harmonic radar tracking. Meredith Lehman, Ethan Moses, Adesola Johnson, Allysen Welty Peachey, Stefano De Faveri, Jodie Cheesman, Matthew Siderhurst and James Yoder. Eastern Branch Meeting, Entomological Society of America, March 2024
- Persistent directional bias in the movement of Queensland fruit flies, *Bactrocera tryoni*, tracked using harmonic radar in papaya fields. Anika Hurst, Allison O'Brien, Nicole Miller, Allysen Welty Peachey, Stefano De Faveri, James Yoder, Matthew Siderhurst and Jodie Cheesman. Eastern Branch Meeting, Entomological Society of America, March 2024
- Counting the Cost: Carbon and Nitrogen Footprinting. J. Yoder. Mennonite Higher Education Sustainability Summit. Eastern Mennonite University, August 2022.
- Nitrogen Footprint Tracking: From University to Community. J. Yoder. 10th Americas RCE Meeting 2021: Creating an Ongoing Learning Space for Sustainable Development in the Americas. Virtual, October 2021
- Headwaters of the North Fork of the Shenandoah Restoration Project: Stream Restoration, Monitoring and Community Engagement to Increase Watershed Health. J. Yoder, D. Graber Neufeld, J. Docherty, B. Wagner. Mid-Atlantic Stream Restoration Conference, Baltimore, MD. September 2017.
- Nutrient loading, sedimentation and overall watershed health assessment in the headwaters of the North Fork of the Shenandoah River. J. Reist, T. Denlinger, D.S. Graber Neufeld, and J.M. Yoder. Virginia Academy of Science Annual Meeting, Fredericksburg, VA. May 2016.
- Ecological watershed monitoring in the headwaters of the north fork of the Shenandoah River using macroinvertebrate and turtle surveys. D. Mendoza, S. Stoner, R. Keiner, D. S. Graber Neufeld & J.M. Yoder, Virginia Academy of Science Annual Meeting, Fredericksburg, VA. May 2016.
- An Integrated Ecological and Water Quality Assessment of the Headwaters of the North Fork of the Shenandoah River, B. Yoder, J. Parker, D. G. Neufeld and J. Yoder. Virginia Academy of Science Annual Meeting, Harrisonburg, VA. May 2015.
- Changing Agricultural Impacts on Shenandoah Watershed. J. Yoder, D. Graber-Neufeld, J. Docherty & B. Wagner. National Fish and Wildlife Foundation, Agricultural Networking Forum, Cumberland, MD. November 2014.
- New Zealand. Yoder, J.M. Eastern Mennonite High School chapel, Harrisonburg, VA. May 6, 2013.
- Measurement Of Invasive Plant Cover Changes To Prioritize And Assess Exotic Plant Control Efforts In A Rare Virginia Wetland. Yoder, J.M., Shenk, A., and Cass, W.. Annual Meeting of the Mid-Atlantic Chapter of the Ecological Society of America. Blacksburg, VA. April 2012

- Let's Get Serious about Integrating Sustainability into General Education: Strategies for Staff and Faculty. Stewart, M, Yoder, J.M., Lantz-Trissel, J., and Rowe, D. Panel Discussion. Annual Meeting of the Association for the Advancement of Sustainability in Higher Education. Pittsburgh, PA. October 2011.
- Environmental Sustainability: A QEP for the 21st Century. Yoder, J.M. and Aracena, B., Southern Association of Colleges and Universities Annual Meeting. Louisville, KY. December 2010.
- Developing a Culture of Sustainability at EMU. Yoder, J.M. Virginia Mennonite Retirement Community Annual Board Retreat. Harrisonburg, VA. October 2010.
- Measurement of native and invasive plant cover changes to improve planning and management in a rare Virginia wetland (poster). Harman, C.H., Yoder J.M., Cass, W.B. Annual Meeting of the Ecological Society of America. Pittsburgh, PA. August 2010.
- Peace With Creation: A History of Sustainability at Eastern Mennonite University. Yoder. J.M., Peace on Earth: Anabaptism and Ecological Action in Aotearoa (Symposium), Waikanae, New Zealand, May, 2010
- The Use of GIS in Determining the Spread and Impact of Invasive Plant Species Within a Wetland Community (poster). Yoder J.M, C.A. Yoder, C.A. Devadason, and W. Cass. Annual Meeting of the Virginia Academy of Science, Harrisonburg, VA. May, 2007.
- Mapping Invasive and Rare Wetland Plant Species to Visualize Competition and Devise a Control Strategy. Cass, W. and J. M. Yoder. Annual Meeting of the George Wright Society, St. Paul MN. April 2007.
- How the story of Jesus and the life of the church has shaped my interactions with students and my teaching practices. J. M. Yoder. Mennonite University Faculty Conference, Bluffton, OH. August, 2006.
- The Effects of Landscape Characteristics on Ruffed Grouse Movements. Yoder J. M., D. A. Swanson, E. A. Marschall. Annual Meeting of the Ecological Society of America. Portland OR. August 1, 2004.
- Ruffed Grouse movements and population dynamics in a fragmented landscape. Yoder J. M., D. A. Swanson, E. A. Marschall. Ohio Avian Conservation and Ecology Conference. Columbus OH. August 6, 2001.
- Measuring the Cost of Dispersal: Predation Risk as a Function of Movement Distance in Ruffed Grouse. Yoder J. M., D. A. Swanson, E. A. Marschall. 117Th Stated Meeting of the American Ornithologists' Union. Ithaca NY. August 5-11, 1999.
- Dispersal of Ruffed Grouse in a fragmented landscape. Yoder J. M., D. A. Swanson, E. A. Marschall. 60th Annual Midwest Fish and Wildlife Conference. Cincinnati OH. December 6-9, 1998.
- Dispersal and population dynamics of Ruffed Grouse in a heterogeneous landscape: Developing a spatial model. Yoder J. M., D. A. Swanson, E. A. Marschall. 115Th Stated Meeting of the American Ornithologists' Union. Minneapolis MN. August 13-17, 1997.
- Dispersal and population dynamics of Ruffed Grouse in a heterogeneous landscape. Yoder J. M., D. A. Swanson, E. A. Marschall. 7TH Biennial Southern Grouse Workshop, Greenbrier, WV. October 14-17 1997.

TECHNICAL REPORTS

- Yoder J. M. 1996 - 1999. Dispersal and population dynamics of Ruffed Grouse in a heterogeneous landscape. Annual and Quarterly Performance Reports, Ohio Department of Natural Resources, Division of Wildlife, Columbus, OH.

PROFESSIONAL SOCIETY MEMBERSHIPS

- | | |
|----------------|---|
| 1995 - present | Ecological Society of America |
| 1996 - present | Society for Conservation Biology |
| 2002 - 2018 | Association for Biology Laboratory Education |
| 2003 - 2008 | National Science Teachers Association |
| 2006 - present | American Association for the Advancement of Science |
| 2007 -2009 | Society for Conservation GIS |
| 2023 - present | Entomological Society of America |

PROFESSIONAL CONFERENCES ATTENDED

- 2023 Annual Meeting of the Entomological Society of America (Eastern Branch). March 2023
- 2021 Annual Meeting of the Ecological Society of America. [online]. August 2021.
- 2021 Annual Meeting of the Association for the Advancement of Sustainability in Higher Education. [online]. October 2021.

- 2020 Annual Meeting of the Ecological Society of America. [online]. August 2020.
- 2019 Rooted and Grounded Conference, AMBS, Elkhart, IN. October 2019.
- 2017 Mid-Atlantic Stream Restoration Conference, Baltimore, MD. September 2017.
2016. Ecostream: Stream Ecology and Restoration Conference, Asheville, NC. August 2016.
2016. Virginia Academy of Science Annual Meeting, Fredricksburg, VA. May 2016.
2016. Environment Virginia Symposium, Virginia Military Institute, Lexington, VA. April 2016
- 2016 American Association for the Advancement of Science, Annual Meeting, Washington DC. Feb. 2016
2015. Virginia Academy of Science Annual Meeting, Harrisonburg, VA. May 2015.
2014. Southern Association of Colleges and Schools, COC Annual Meeting, Nashville, KY. December 2014.
2014. National Fish and Wildlife Foundation, Agricultural Networking Forum, Cumberland, MD. November 2014.
2013. Annual Meeting of the Association for the Advancement of Sustainability in Higher Education. Nashville, TN. October 2012.
2013. International Congress for Conservation Biology. Baltimore, MD. August, 2013
2013. Smart and Sustainable Campus Conference, Bethesda, MD. April 2013
2012. Annual Meeting of the Mid-Atlantic Chapter of the Ecological Society of America. Blacksburg, VA. April 2012
2011. Annual Meeting of the Association for the Advancement of Sustainability in Higher Education. Pittsburgh, PA. October 2011.
2011. Sustainability Across the Curriculum Leadership Workshop, Association for the Advancement of Sustainability in Higher Education. Emory University, Atlanta, GA. January 2011
2010. Southern Association of Colleges and Schools, COC Annual Meeting, Louisville, KY December 2010
2010. Annual Meeting of the Ecological Society of America. Pittsburgh, PA. August 2010.
2010. Peace on Earth: Anabaptism and Ecological Action in Aotearoa. Waikanae, New Zealand, May 2010
2009. Southern Association of Colleges and Schools, COC Annual Meeting, Atlanta GA, December 2009
2009. Association for Biology Laboratory Education, Annual Conference, University of Delaware, June 2009
2007. Au Sable Academic Council Meeting, Seattle, WA. July 2007
2007. ESRI GIS Education User Conference, San Diego, CA. June 2007
2007. Au Sable Academic Council Meeting, Seattle, WA. July 2007
2007. ESRI GIS Education User Conference, San Diego, CA. June 2007
2007. Virginia Academy of Science, Annual Meeting, Harrisonburg, VA. May 2007
2006. Mennonite University Faculty Conference, Bluffton, OH. August 2006.
- 2005, Farming with Values that Last, sustainable farming conference at Laurelville Retreat Center, PA; Feb 25-27, 2005.
2004. Annual Meeting of the Ecological Society of America. Portland OR. August 1, 2004.
2001. Ohio Avian Conservation and Ecology Conference. Columbus OH. August 6, 2001.
1999. 117Th Stated Meeting of the American Ornithologists' Union. Ithaca NY. August 5-11, 1999.

1998. 60th Annual Midwest Fish and Wildlife Conference. Cincinnati OH. December 6-9, 1998.

1997. 115th Stated Meeting of the American Ornithologists' Union. Minneapolis MN. August 13-17

1997. 7TH Biennial Southern Grouse Workshop, Greenbrier, WV. October 14-17 1997.

PROFESSIONAL COMMUNITY ACTIVITIES

2019-present Member, Nitrogen Footprint Working Group, UNH & UVA

2013 – present Executive Leadership Committee, Sustainable Shenandoah Valley RCE

2016-18 Member, North Shenandoah Mountain Aquatics Working Group, National Forest Service

2015 Referee, manuscript for *Natural Sciences Education*

2007- 2013 Member, Science Advisory Council, Eastern Mennonite High School

2005 Organized Hunger Banquet with MCC and Oxfam USA, September 2005, Park View Mennonite Church. Attended by 180 people and involved local farmers and EMU students.

2003 Breakout session leader, Ethics of Biotechnology Conference, Eastern Mennonite University, Nov. 13-14, 2003.

2001-2003 Referee, manuscripts for *Perspectives in Science and Faith*

1998 Referee, manuscript for *Birds of North America*

EMU PRESENTATIONS

2016 “Stream Restoration, Ecological Monitoring and Community Engagement in a Shenandoah Watershed”, Yoder, J.M. Eastern Mennonite University, Suter Science Seminar, September 14, 2016

2012 "Teaching Strategies Workshop (Peace with Creation)" Spring Faculty/Staff Workshop, Yoder, J.M. Eastern Mennonite University, May 4, 2012

2011 “The Language of Sustainability”, Fall Faculty/Staff Workshop. Yoder, J.M. Eastern Mennonite University, August 21, 2011

2011 “Uncovering Sustainability in the Curriculum”, Spring Faculty/Staff Presentation and Workshop. Yoder, J.M. Eastern Mennonite University, May 5, 2011.

2011 “Veggies, Sprinklers and Bike Paths – Beyond Recycling at EMU”, Spring Faculty Workshop, Yoder J. M. Eastern Mennonite University, March 6, 2011

2010 “Possums, and Rats, and Stoats! Oh my! The Fight Against Introduced Predators in New Zealand.” Yoder J. M. Suter Science Seminar, Eastern Mennonite University, October 22, 2010.

2007 “Be Faithful, Be Green.” Micah Proposal regarding campus sustainability plan for the next 10 years, including major academic conference. Micah Conference. March 2007.

2006 Spring Faculty Staff Conference presentation on the recently submitted Chesapeake Bay Small Watershed Grant for improvement of storm water management on campus. May 2006

2004 “Ruffed Grouse Dispersal: The Effect of Landscape and Consequence for Survival.” Yoder J. M. Suter Science Seminar, Eastern Mennonite University, October 9, 2004.

EMU NON-TEACHING ACTIVITIES

- Program Director, Biology, Chemistry & Environmental Science Programs, Aug. 2019 - present
- Institutional Animal Care and Use Committee, 2019 - present

- Inter Cultural Committee, 2009 – 2015, 2018 – present
- Creation Care Council, 2007 – present
- Curator, D. Ralph Hostetter Museum of Natural History, 2005 – present
- Advisor for Environmental Science and Environmental Sustainability majors, 2001 - present
- Faculty Advisor for Earthkeepers student organization, 2000 – present
- Academic Council, 2019 - 2022
- Oversight Committee, The Center for Sustainable Climate Solutions, 2016 – 2019
- Admissions Committee, 2016 – 2019
- QEP Implementation Team Chair, 2009 – 2015
- Faculty Senate, 2013-2015
- Writing Committee, 2010 – 2014
- Committee on Teacher Education, 2006 – 2014
- QEP Planning Committee, 2008 – 2009
- Admissions Committee, 2007 – 2009
- Biology Faculty Search Committees, 2006 (chair), 2007, 2012, 2019, 2021
- Library Advisory Committee, 2002-2006

COURSES TAUGHT

2023-2024

Concepts in Biology
 Concepts Seminar
 Conservation Biology
 Environmental Internship
 Biology Internship
 Ecology: Adaptation and Environment

2022-2023

Concepts in Biology
 Concepts Seminar
 Field Biology
 Ecology: Adaptation and Environment
 Environmental Science Capstone
 Environmental Internship
 Biology Internship

2021-2022

Concepts in Biology
 Concepts Seminar
 Conservation Biology
 Environmental Applications of GIS
 Environmental Internship
 Biology Internship
 Ecology: Adaptation and Environment

Summer 2021

CCSSC 201 Cross-cultural Understanding: Navajo Nation

2020-2021

Concepts in Biology
 Concepts Seminar
 Restoration Ecology
 Environmental Sustainability Capstone
 Environmental Internship
 Biology Internship
 Ecology: Adaptation and Environment

2019-2020

Concepts in Biology
 Biological Explorations
 Conservation Biology

Environmental Sustainability Capstone
Ecology: Adaptation and Environment
Environmental Applications of GIS
Summer Senior Seminar: The Elephant and the Rider

2018-2019

Concepts in Biology
Biological Explorations
Biology Research Seminar (2x)
Restoration Ecology
Environmental Sustainability Capstone
Ecology: Adaptation and Environment
Faith Science and Ethics
Summer Senior Seminar: The Elephant and the Rider

2017-2018

Concepts in Biology
Biological Explorations
Biology Research Seminar (2x)
Conservation Biology
Introductory Biology Research
Ecology: Adaptation and Environment
Faith Science and Ethics
Summer Senior Seminar: The Elephant and the Rider

Summer 2017

CCSSC 201 Cross-cultural Understanding: Navajo Nation

2016-2017

Concepts in Biology
Biological Explorations
Biology Research Seminar (2x)
Introductory Biology Research
Environmental Toxicology
Faith Science and Ethics

2015-2016 (3/4 time fall 2015, sabbatical, spring 2016)

Concepts in Biology
Environmental Applications of GIS

Summer 2015

CCENV 210 Island Ecology and Conservation
CCSSC 201 Cross-cultural Understanding

2014-2015 (3/4 time teaching load)

Concepts in Biology
Advanced Ecology
Food and Population
Ecology: Adaptation and Environment

Summer 2014

Environmental Science (online), June-July 2013

2013-2014 (3/4 time teaching load)

Concepts in Biology
Conservation Biology
Biology Research Seminar
Environmental Applications of GIS
Ecology: Adaptation and Environment
Environmental Sustainability Capstone

Summer 2013

Environmental Science (online), June-July 2013

Bridging the Valley: Summer STEM Program, Laboratory Instructor, July 2013

2012-2013 (3/4 time teaching load)

CCSSC 201 Cross-cultural Understanding

CCHIS 306 New Zealand History

CCREL306 Christianity, Indigenous Religion and Restorative Justice in New Zealand

CCENV 203 Environment and Society in New Zealand

CCENV 210 Island Ecology and Conservation

Ecology: Adaptation and Environment

Environmental Sustainability Capstone

Summer 2012

Bridging the Valley: Summer STEM Program, Laboratory Instructor, July 2012

2011-2012 (3/4 time teaching load)

Concepts in Biology (team taught with D. Graber-Neufeld)

Conservation Biology

Ecology: Adaptation and Environment

Environmental Applications of GIS

Biological Explorations (team taught with S. Burkholder)

Environmental Sustainability Capstone

Summer 2011

Bridging the Valley: Summer STEM Program, Laboratory Instructor, July 2011

2010-2011 (5/8 time teaching load)

Concepts in Biology (team taught with D. Graber-Neufeld)

Advanced Ecology and Field Biology

Ecology: Adaptation and Environment

Environmental Sustainability Capstone

Summer 2010

Cross-Cultural Social Science (New Zealand Cross-cultural) (new course)

Environmental Science and Society in New Zealand (new course)

2009-2010 (7/8 time teaching load)

Concepts in Biology (team taught with D. Graber-Neufeld)

Animal Form and Function (new prep; team taught with D. Graber-Neufeld)

Conservation Biology

Environmental Science

Environmental Applications of GIS

Ecology: Adaptation and Environment

Independent Research Students: Christina Harman, Ethan Zook (invasive plants, ecological paleontology)

Environmental Science Practicum (three students, responsibility shared with D. Graber-Neufeld)

Summer 2009

Bridging the Valley: Summer STEM Program, Laboratory Instructor, July 2009

2008-2009

Concepts in Biology (team taught with D. Graber-Neufeld)

Advanced Ecology and Field Biology

Environment and Society (new prep)

Ecology: Adaptation and Environment

Biological Explorations (major revision of old Bioscience course)

Independent Research Student: Christina Harman (invasive plants)

Environmental Science Practicum (five students, responsibility shared with D. Graber-Neufeld)

2007-2008 (1/2 time teaching load – sabbatical)

Ecology: Adaptation and Environment

Green Design (new course; team taught with D. Graber-Neufeld)
Food and Population
Food and Population: Adult Degree Completion Program (team taught with W. Teel)
Independent Research Students: Trevor Weaver (GIS) and Christina Harman (invasive plants)
Environmental Science Practicum (five students, responsibility shared with D. Graber-Neufeld)

2006-2007

Concepts in Biology (team taught with G.A. Herin)
Conservation Biology
Advanced Ecology and Field Biology (new course)
Ecology: Adaptation and Environment
Food and Population
Environmental Applications of GIS
Independent Research Students: Anisha Devadason, Curtis Yoder (invasive plants)
Environmental Science Practicum (three students)

2005-2006

Concepts in Biology
Conservation Biology
Ecology: Adaptation and Environment
Zoology
Food and Population
Independent Research Student: Andrew Dutcher (invasive plants/GIS)
Environmental Science Practicum (five students)

2004-2005

Concepts in Biology (new course, team taught with D. Graber-Neufeld)
Ecology (400 level)
Food and Population (fall and spring)
Ecology: Adaptation and Environment (new prep, revision of previous 400 ecology course)
Applied Ecology: GIS (new course)
Environmental Science Practicum (ten students, responsibility shared with D. Graber-Neufeld)

2003-2004

Food and Population
Conservation Biology
Ecology
Zoology
Biology as Inquiry II (team taught with R. Miller and K. Roth)
Environmental Science
Independent Research Student: Jeremy Yoder (GIS)
Environmental Science Practicum (five students, responsibility shared with D. Graber-Neufeld)

2002-2003

Biology as Inquiry I (team taught)
Ecology
Conservation Biology
Food and Population
Biology as Inquiry II (team taught)
Environmental Science
Environmental Science Practicum

2001-2002

Biology as Inquiry I (team taught)
Ecology (new prep, redesign of course)
Bioscience
Zoology
Biology as Inquiry II (team taught)
Environmental Science
Independent Research Students: four students (small mammal mark/recapture)

2000-2001

Biology as Inquiry I (team taught)
Food and Population
Bioscience
Conservation Ecology (new prep, added laboratory component)
Biology as Inquiry II (team taught)
Environmental Science

1999-2000

Biology as Inquiry I (new prep, team taught)
Food and Population (new prep)
Bioscience (new prep)
Zoology (new prep)
Biology as Inquiry II ((new prep, team taught)
Environmental Science (new prep)