

KIMBERLY A. YATES

Assistant Professor
College of Education
Northern Kentucky University Highland
Heights, KY 41099
859-572-5239
Yatesk2@nku.edu

EDUCATION

Doctor of Education

Curriculum and Instruction (2013)
Montana State University, Bozeman, MT
Advisor: Dr. Michael Brody
Dissertation: *A Multi-Case Study Of School Gardens In Southwest Montana*

Master of Education

Curriculum and Instruction (2004)
University of Nevada Las Vegas, Las Vegas, NV
Major/Minor Subject Areas: General Science/Mathematics

Bachelor of Arts

Sociology (2000)
University of Nevada Las Vegas, Las Vegas, NV

UNIVERSITY TEACHING EXPERIENCE

Assistant Professor (2014-present)

Department of Teacher Education, Northern Kentucky University, Highland Heights, KY

- EDU 300: Human Growth and Development
- EDU 319: Classroom Climate Management Secondary
- EDU 324: Fundamentals of Secondary Education
- EDU 308: Science in the Elementary Classroom
- EDU 346: Teaching Science in Middle Grades
- EDU 330: Teaching Science in Secondary School
- EDU 494 & 495: Clinical Experience Middle Grades
- EDU 496 & 497: Clinical Experience Secondary
- EDMT 543: Method & Pedagogy in Middle School/Secondary Science
- EDU 545: Fundamentals of Environmental Education
- EDU 546: Teaching Environmental Education
- EDU 547: Teaching and Learning in the Outdoors
- EDU 548: Environmental Issues
- EDG 692: Applied Action Research II

Adjunct Faculty Member (2011-2014)

Department of Education, Montana State University, Bozeman, MT EDU 223:
Educational Psychology and Adolescent Development
EDU 395: Secondary Practicum (5-12), Clinical Field Supervisor EDU
395: Elementary Practicum I & II, Clinical Field Supervisor

Graduate Teaching Assistant (2010-2012)

Department of Education, Montana State University, Bozeman, MT
EDCI 102: Early Field Experience
EDU 202: Early Field Experience
EDU 395: Elementary Practicum I & II, Clinical Field Supervisor
EDU 395: Secondary Practicum (5-12), Clinical Field Supervisor
EDU 497: Secondary Science Methods
EDCI 506: Applied Educational Research
EDCI 580: Summer Ecological Field Studies

P-12 TEACHING EXPERIENCE

Middle Grades Science Teacher (2001-2002)

Jim Bridger Middle School; Las Vegas, NV

- Taught eighth grade Chemistry and Physics
- Taught to a diverse population of students from a low socio-economic background in an urban setting
- Taught students with English as a second language
- Participated in extracurricular activities in a supervisory role

PROJECTS AND CREATIVE ACTIVITY

Director of the Center for Environmental Education (CEE) (2017-current)

- As the Director of the CEE I have been instrumental in the development of all programming and oversee the financials, as well as develop partnerships
- The CEE has a mission of improving environmental literacy in the region
- The CEE offers professional development for pre-service, in-service and non-formal educators, works with community partners, supports projects and events, and offers both undergraduate and graduate programs in environmental education through the Department of Teacher Education

KAEE Facilitator (2016-current)

- As a Kentucky Association for Environmental Education (KAEE) Facilitator I am trained to provide quality professional development workshops to teachers, non-formal educators and community members
- Workshop participants learn how to conduct their own environmental education workshops and how to use the accompanied curriculum guides in both classroom and informal settings
- Participants become certified educators and receive curriculum materials for future use

NKY FAME (2017-18)

- Partnered with area businesses to provide externships for high school teachers in STEM or manufacturing related fields
- Teacher externships focused on increasing awareness of the need for trained personnel in high tech manufacturing
- Provided teacher development workshops to support teachers' lesson development following their KY-FAME externship experience
- Observe teachers in their classrooms delivering the KY-FAME (manufacturing) themed lessons
- Collect and evaluate data on teacher implementation of manufacturing themed lessons and student perceptions of manufacturing careers

EPA Climate Change Grant (2016-2018)

- Delivery of Climate Change Literacy workshops and informational sessions were conducted in partnership with the Kentucky University Partnership for Environmental Education (KUPEE) and KAEE
- Workshops were offered across the state by NKU and partner agencies
- Teachers, non-formal educators and community members participated in workshops to improve their climate change literacy and gain pedagogical skills

Kentucky PRIDE Grant (2015-16)

- Representing the NKU Center for Environmental Education, I worked in partnership with the Kentucky University Partnership for Environmental Education (KUPEE) on a year long project with the following objectives:
 - Identify and address the top five research priorities to improve delivery and demonstrate the importance of environmental education (EE) in Kentucky
 - Research and work towards reinstatement of EE as a theme in the pre-service curriculum through the Kentucky Educational Professional Standards Board (KY EPSB)

Flathead Watershed Project, Kalispell, MT (2014)

- Prepared and administered web-based research on the needs and desires of the Flathead Watershed Project committee and financial backers
- Developed curriculum materials based on the research results
- Curriculum development focused on children ages 11-15 with an emphasis on place-based experiential education
- The final step of the project was the development of an online resource to include printable materials of all curriculum for use by educators, parents, and community members

Gallatin Valley Farm to School, Bozeman, MT (2011-2014)

- Served on the visionary committee working with Gallatin Valley Land Trust on a community development project to create a public space for outdoor recreation, with the possible inclusion of an educational community garden or small-scale farm

- Contributed to the *Teacher Tool Kit*, published by GVF2S, available online and distributed to area schools - the Tool Kit includes Farm to School resources and activities including Common Core standard alignment
- Helped plan community events promoting National Farm to School Month, contacted local businesses for sponsorships, worked with area schools to publicize the event
- Helped in the planning and implementation of a statewide event, MT Crunch Time, to bring awareness and support of healthy eating and local farmers and ranchers, the event took place on National Food Day and included the participation of school children statewide

School Garden Consulting, Bozeman, MT (2012-2013)

- Provided recommendations to area schools on the development of new garden programs as well as the sustainability of existing programs
- Provided resources for funding and development of new garden programs
- Acted as a liaison between school administrators, school personnel, and parents with common interests in school garden

PROFESSIONAL PRESENTATIONS

International

Hebert, T., Yates, K., Walters, M., Franzen, R., Brown, F., *Connecting With Nature As a Mindfulness Practice to De-stress Educators*, North American Association of Environmental Educators Annual Conference, Lexington, KY (2019).

Yates, K., Franzen, R., Hebert, T., McClain, L., Brown, F., Walters, M., *Motivating College Students for the Environmental Education Profession*, North American Association of Environmental Educators Annual Conference, Spokane, WA (2018).

Haines, S., Merritt, E., Franzen, R., Born, P., Bhagwanji, Y., Yates, K., Brown, F., *Preparing Future Teachers to Integrate Environmental Education Across the Curriculum*, North American Association of Environmental Educators Annual Conference, Spokane, WA (2018).

Yates, K., Wilder, M., Hubbard-Sanchez, J., Huss, J., Hardin, B., *The Impact of Climate Education Across the Commonwealth of Kentucky*, North American Association of Environmental Educators Annual Conference, Spokane, WA (2018).

Yates, Kimberly, *Place-Based Curriculum Research Processes: Flathead Watershed Educators' Guide*, North American Association of Environmental Educators Annual Conference, Madison, WI (2016).

Yates, K., Bennett, B., Wilder, M., Hubbard-Sanchez, J., Haight, A., Allen, D., & Huss, J., *Research and the Inclusion of EE in Teacher Preparation*, North American Association of Environmental Educators Annual Conference, Madison, WI (2016).

Yates, Kimberly, *Teachers' Perspectives on Outdoor Classrooms*, North American Association of Environmental Educators Annual Conference, San Diego, CA (2015).

Yates, K., Brody, M. & Vallor, R., *Using a Delphi Survey to Build Consensus Among Diverse Groups*, North American Association of Environmental Educators Annual Conference, Ottawa, ONT, Canada (2014).

Yates, Kimberly, *A Qualitative Investigation of the Development of School Gardens*, North American Association of Environmental Educators Research Symposium, Oakland, CA (2012).

Yates, Kimberly, *Eagle Mount's Horticulture Program: Transforming Lives With Horticulture Therapy*, North American Association of Environmental Educators Research Symposium, Oakland, CA (2012).

Yates, Kimberly, *Implementation of a School Garden: Who, How, and Impact*, North American Association of Environmental Educators Conference, Oakland, CA (2012).

National

Yates, Kimberly, *A Multi-Case Study of School Gardens in Southwest Montana*, Ethnographic and Qualitative Research Conference, Las Vegas, NV (2016).

Regional

Hubbard-Sanchez, J., Huss, J., Reefer, A., Wilder, M., Yates, K., *Climate Change Education: Addressing Misconceptions*, Southeastern Environmental Education Alliance Conference and Research Symposium, St. Petersburg, FL (2018).

State and Local

Yates, K., *Gardening Made Easy With Seed Mats*, Outdoor Learning Symposium, Virtual (2021).

Yates, K., *Easy and Affordable Strategies for Growing Indoors*, Kentucky Associate for Environmental Education, Virtual (2020).

Yates, K. & Griebeling, S., *STREAM Practices in Pre-K-Elementary: Life Science Flower Dissection*, STEM Conference, Highland Heights, KY (2019).

Beach, J. & Yates, K., *Environmental Education Resources for the Classroom*, STEM Conference, Highland Heights, KY (2018).

Hubbard-Sanchez, J., Huss, J., Reefer, A., Wilder, M., Yates, K., *The Impact of Climate Education Across the Commonwealth of Kentucky*, Kentucky Associate for Environmental Education, Barea, KY (2018).

Yates, Kimberly, *Gardening Made Easy With Seed Mats*, Kentucky Associate for Environmental Education, Gilbertsville, KY (2017).

Yates, K. & Bowles, V., *Implementing Phenomenon-Based Learning with Project Learning Tree E-Units*, Kentucky Science Teacher Association, Lexington, KY (2017).

Yates, Kimberly, *Strategies to Increase Communication and Collaboration Between Teacher Preparation Programs and Area Schools*, Kentucky Associate of Teacher Educators, Bowling Green, KY (2015).

Yates, K. & Miller, C., *Water Quality & Inferential Statistics*, Transdisciplinary Experience for Preservice Secondary Teachers, Kentucky Center for Mathematics, Northern Kentucky University, Highland Heights, KY (2015).

Yates, Kimberly, *Fossil Exploration*, *Expanding Your Horizons: A science and math exploration for girls in grades 6, 7 & 8*, Bozeman, MT (2013).

GRANT AWARDS

COEHS Dean's Developmental Council Micro Grant (2017-18). Hydroponics How To. Amount Funded: \$1,000

Improving Educator Quality State Grants (2016-18). NKY-Fame: Experiences in Career & Technical Preparation for Teachers & Students (PI Theodore Hodgson, Co-PI Kimberly Yates). Amount Funded: \$130,000

COEHS Dean's Developmental Council Micro Grant (2016-17). Growing Minds. Amount Funded: \$1,123

KAEE EPA Partnership Grant (2015-2018). Kentucky Association for Environmental Education and the Environmental Protection Agency. Amount Funded: \$8,625

PUBLICATIONS

Griebing, S., Yates, K., & Waspe, N., (in press) Unlocking the Potential of Struggling Students: One Teacher, Student-centered Inquiry Learning and a Makerspace. *Journal of Ethnographic and Qualitative Research*, 16(1).

Zalla, C. & Yates, K. (2021). Helping Children Discover Meaning through Environmental Education: A Sample Review of the Literature. *Sustainability in Environment*, 6(1), 38-41. DOI:10.22158/se.v6n1p38

Criswell, B., Hanley, C., Hodgson, T. & Yates, K. (2019). Crossing borders and stretching boundaries: A look at community-education partnerships and their impact on K-12 STEM education. A chapter to appear in A. Sahin & M.J. Mohr-Schroeder, (Eds), *STEM education*

2.0 Myths and truths: What did 10 years of STEM education research in K12 teach us? Brill Publishing.

Yates, K., Reefer, A., Robertson, D., Hubbard-Sanchez, J., Huss, J. & Wilder, M. (2018). Educators' perceptions of environmental education and professional development in teacher preparation programs, *Applied Environmental Education & Communication*, DOI: 10.1080/1533015X.2018.1451411

Yates, K. & Sullivan, S. (2017). Meaningful Learning and School-Based Gardens: A multi- case study conducted in the harsh climate of the Greater Yellowstone Ecosystem. *Journal of Ethnographic & Qualitative Research*, 11(4), 305-319.

Vallor, R., Yates, K., & Brody, M. (2016). Delphi Research Methodology Applied to Place- Based Watershed Education. *Education Sciences*, 6(42), 1-19.

Yates, K. (2015). From Liquid To Solid And Back Again: Making ice lanterns to decorate and demonstrate states of matter. *Green Teacher*, 105, 11-13.

Yates, K. & Brody, M. (2014). Review of the book *Roots and Research in Urban School Gardens*, by Veronica Gaylie. *Journal of Environmental Education*, 45, 132-134.

UNIVERSITY SERVICE

University

Senator, NKU Faculty Senate, 2020-present

Director, Center for Environmental Education, 2017-present

Faculty Advisor, Environmentally Concerned Organization of Students (ECOS), 2018- 2021

Committee Member, CINSAM Research Grant Review Committee, 2020

Board Member, Ecological Stewardship Institute Advisory Board, 2017-2020

Committee Member, University Curriculum Committee, 2016-2020

Committee Member, CINSAM Associate Director Search Committee, 2019

Committee Member, CINSAM Program Manager Search Committee, 2018

Committee Member, Research and Education Field Station Strategic Planning Committee, 2015-2017

Board Member, Center for Environmental Education Advisory Board, 2014-15

College & Department

Team Member, Elementary Grades Program Team, 2018-present

Team Member, Middle Grades Program Team, 2014-present

Committee Chair, Peer Evaluation Committee for Dr. Sarah Kasten, Spring 2021

Committee Member, COEHS College Curriculum Committee, 2016-2020

Team Member, Secondary Program Team, 2014-2020

Team Member, CAEP Standard 3 Team, 2015-2017

Committee Member, Middle Grades Faculty Search Committee, 2015

Committee Member, Peer Evaluation Committee for Dr. Patricia Bills, Spring 2015

PROFESSIONAL SERVICE

Committee Member, Kentucky Department of Education, Academic Standards Review Committee, 2020-present
Committee Member, Kentucky Association for Environmental Education, Education Advisory Committee, January 2020-present
Guest Speaker, Environmental Science Careers course, NKU, August 2021
Exhibitor, STEM Conference, NKU, November 2020
Guest Speaker, Environmental Science Careers course, NKU, August 2020
Committee Member, Future Educators of America (FEA) Advisory Committee and student mentor, 2015-2019
Co-sponsor, Backyard Wilderness: BioBlitz in the Park, Erlanger, KY, September 2018
Host, Environmental Education Stakeholder Meeting, NKU, April 2018
Project Partner, Great Urban Parks Work Study Program, Covington, KY, 2017-2018
Reviewer, Taylor and Francis, *Applied Environmental Education & Communication*, 2019-present
Reviewer, Taylor and Francis, *Science Activities: Classroom Projects and Curriculum Ideas*, 2014-present
Presenter, College of Arts & Sciences, BookFest, NKU, 2015
Presenter, Center for Integrative Natural Science and Mathematics (CINSAM), STEM Connections Event: Patterns, September 2015
Volunteer, Center for Integrative Natural Science and Mathematics (CINSAM) STEM Connections Event: Earth's SySTEMs Night, September 2014

COMMUNITY SERVICE

Volunteer and Judge, Ryle High School Speech Team, 2018-2020
Volunteer and Judge, Gray Middle School Speech Team, 2015-2018
Judge, Middle Grades Science Fair, Mary Queen of Heaven School, Kentucky, 2014
Judge, Middle Grades Science Fair, Grant County Middle School, Kentucky, 2014
Board Member, Vice President of the Board of Directors, Gallatin Valley Farm to School, Bozeman, Montana, 2012-2014
Volunteer, Horticulture Therapy Program for People with Disabilities, Eagle Mount, Bozeman, Montana, 2012
Co-captain, Montana Science Olympiad Captain, Montana State University, Bozeman, Montana, 2011 & 2013

PROFESSIONAL MEMBERSHIPS & ASSOCIATIONS

Association for Experiential Education (AEE)
Kentucky Association for Environmental Education (KAEE)
Kentucky Association of Teacher Educators (KATE)
Kentucky Science Teacher Association (KSTA)
National Science Teacher Association (NSTA)
North American Association for Environmental Education (NAAEE)

PROFESSIONAL DEVELOPMENT

Participant, KAEE Facilitator Virtual Training on Virtual Training, December 2020

Participant, Practitioner's Guide to Assessing Connection to Nature Virtual Workshop, December 2020

Participant, Picture Perfect STEM online course, March 2020

Participant, Project Learning Tree e-Unit training, Frankfort, Kentucky, 2017

Participant, KAEE Facilitator Training, Frankfort, Kentucky, 2017

Attendee, Forging Partnerships for Inclusive Excellence Symposium, NKU, 2016

Participant, Project Learning Tree online curriculum training, 2016

Participant, Project Underground curriculum training, Prestonsburg, Kentucky, 2016

Participant, Project WET curriculum training, Prestonsburg, Kentucky, 2016

Participant, Kentucky NEED Project curriculum training, Covington, Kentucky, 2015

Attendee, Gifted Education Symposium, Harrodsburg, Kentucky, 2015

Attendee, KEEC public forum, Kentucky's Environmental Education Master Plan, Lexington, Kentucky, 2014