

Curriculum Vitae

Amy Koehler

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Education

2008-2012 Bachelor of Science, Plant Biology (Ecology and Evolution), Michigan State University (MSU), East Lansing, Michigan

Teaching Certification

Career & Technical Credential issued by North Dakota Department of Career and Technical Education

Post-Secondary Agriculture Education Certification 5 years, 2018-2023

Teaching Experience

2017-Present

Horticulture Instructor, Horticulture, Dakota College at Bottineau (October 2017 –Present)

Courses: Foliage Plant ID (HORT 175), Cacti and Succulent ID (HORT 176), Horticulture Science (PLSC 210), Herbaceous Landscape Plants (HORT 235), Greenhouse Operations (HORT 249), Garden Planning (HORT 282), Plant Propagation (PLSC 268), Compost Production and Use (HORT 246)

Online Courses: Intro to Plants and Pests (HORT 151), Specialty Food Crops (HORT 181), Special Topics Local Food (HORT 299)

September 2015- May 2016

Certified Substitute Teacher, Berrien County, Michigan, EduStaff

Grades K-12

May 2013- May 2015

Agro-Forestry and Conservation Farming Technician/Volunteer, U.S. Peace Corps Zambia

Agro- forestry and Conservation Farming Workshop Adult Education Leader, Mikuba District

Environmental Education Instructor, Mikuba Community Primary School

May 2012-February 2013

Sarett Nature Center Naturalist, Benton Harbor, Michigan

Adult and youth environmental programs, classes and workshops

Class/program subjects: Amphibians and Reptiles, Wetland ecology, Riparian Ecology, Insects, Michigan Fur Trade History, Animal Classification, Dune Study, Michigan Geology, Forest Ecology, Plant Classification, Flora and Fauna Habitats

Administrative Experience

October 2017- Present

Specialty Crop Instructor and Technician, Entrepreneurial Center for Horticulture (ECH), Dakota College at Bottineau

Duties: Provide technical assistance to small farm and specialty crops producers. Provide academic instruction for Horticulture department and related programs. Participate in program promotion and student advising. Prepare reports on producer/farmer data for distribution to granting agencies, Dakota College, the ECH, and all stakeholders.

Research Experience

May 2016- October 2017

Biological Science Technician, U.S Fish and Wildlife Service (USFWS), J. Clark Salyer National Wildlife Refuge, Upham, North Dakota

Duties: Conducted seasonal migrating duck mating pair's surveys, historical grassland prairie and wetland easement surveys, and conducted and recorded data for the USFWS Great Plains Wet Meadow Plant Transect study. Completed prep, baiting, and participated in migrating duck sexing and banding.

Supervisor: Gary Williams, Refuge Manager

October 2009- May 2012

Student Research Assistant, MSU-DOE Plant Research Laboratory, Department of Plant Biology, Michigan State University

Lab researched chloroplast protein targeting and biosynthesis of cell wall polysaccharides in the Arabidopsis plant and tobacco plant.

Duties: Responsibilities included independent propagation of Arabidopsis and seed harvest which included germination, growth chamber and green house monitoring, pesticide use, irrigation, thinning, and agro-bacterial infiltration of plant DNA. Duties included use of various lab equipment and protocols such as media solutions, PCR, gel electrolysis, autoclave operation, DNA extraction, seed sterilization, data recording and analysis, and bio-hazard and chemical waste handling and disposal methods.

Supervisor: Linda Danhof, Lab Manager

Invited Talks

Koehler, A. F. (2018, October). *"Teach a man to Fish," My Service in The U.S. Peace Corps Zambia.* Dakota College at Bottineau, LeaderJacks Speaker

Committees

August 2018-Present *Distance Education Committee Member, Dakota College at Bottineau*

August 2018-Present *Earth Day Committee Member, Dakota College at Bottineau*

Honors/Awards

2010-2012 Avian Science Club Treasurer (Michigan State University)

Other Experience

February 2013- May 2015

U.S Peace Corps Volunteer, Linking Food, Income, and Environment (LIFE) Program, Mpika, Zambia

Accomplishments: Volunteered as a Peace Corps Volunteer in rural Mpika, Zambia teaching and demonstrating agro-forestry, conservation agriculture and environmental education in a catchment area of 1,000 households. Independently created and conducted Caterpillar Conservation Awareness program to 300 individuals in 4 separate rural communities. Taught two terms of environmental education at local primary school to 7th, 8th, and 9th graders. Co-facilitated environmental education camp for 16 rural youth and 8 counterparts. Collaborated with local government forestry officials to provide 600 poly-pots to 20 rural farmers to promote agro-forestry. Independently facilitated 3 month long agro-forestry, conservation agriculture and poultry training designed to promote of conservation of native trees in rural Zambia. Experience in backcountry/bush navigation, camping, biking and hiking up to 20-40 miles per day in extreme climate and terrain conditions to reach rural communities.