

Arthur James Kneeland

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## **Education**

University of Wisconsin-Stout

Bachelor's Degree - 5/2006 137 Semester Hours

Major: Applied Science Lab Management GPA: 3.4 out of 4

Minor: Chemistry

Relevant Coursework:

Environmental Chemistry, Environmental Science, Environmental Regulations, Ecology, Botany, Biochemistry, Quantitative Analysis, Instrumental Analysis, Biotechnology, Microbiology, Organic Chemistry, Technical Writing and Principles of Management

University of Wyoming Entomology

Master's Degree - 12/2009 38 Semester Hours

Major: Renewable Resources Entomology GPA: 3.9 out of 4

Relevant Coursework:

Insect Taxonomy, Aquatic Entomology, Insect Ecology, Insect Behavior, Insect Physiology and Anatomy, Applied Spatial Processing, GIS 1, Applied Statistical Methods. ESRI ARCGis certification.

## **Academic Appointments**

Lecturer UW-Stout Biology Department 2010-present

Courses Taught:

Bio 101: Introduction to Biology

Bio 111: Science Society and the Environment

Bio 135: Zoology lab

Bio 141: Plants and People

Bio 242: Botany Lab

Bio 252: Organismal Biology Lab

Bio 355: Entomology

ENSC 425: Science & Sustainability Capstone

## **Service**

**Advisor Dunn County Jail Gardens Program** 2011, 2012 Worked to expand the university role, advised the VISTA coordinator on Best Agricultural Practices.

**Community Garden Board** 2011-2017 Board Member, worked to incorporate service learning of my courses into developing community gardens.

**USAID, Partners of the Americas, Farmer to Farmer Volunteer** 8/2011, Mission of trip was general Entomology education and Greenhouse management. In addition much work was done in regards to small scale gardening with children.

1/2012 Insect control was primary mission of trip; education regarding insect control was done. Additionally I advised on long term control of current potato disease crisis from Zebra chip and the associated insect vector the potato Psyllid.

**Advisor Just Food**, formerly Sustainable Agriculture Education Association. 2012-present. Primary objectives are to develop small local agricultural opportunities at UW-Stout and in Dunn County.

**Advisor GreenSense** 2015-present. Primary objective is to increase awareness of environmental issues and have a positive impact on sustainability at Stout and in Menomonie

**General Education Committee**, Senate of Academic Staff member 2012-2018

**GEC Vice Chair** 2015-2018

**Sustainability Steering Committee** 2011-2013, 2015-present Member at large, Senate of Academic Staff member 2013-2014

**SSC Chair of Campus Garden Workgroup** Formulating a plan to implement a campus garden at UW-Stout, with help from both SSC and Student body.

**SSC Alternative Transportation Workgroup** 2012-2016

**SSC Chair Data Spreadsheet Workgroup** 2017-18

**Transportation Audit Subgroup** 2018-19

**Spring Move-out - Coordinator** 2011, 2012, 2013. Expanded program to a 3 day collection of move out waste. Greater collection volume than previous years

**Board member Farmer to Farmer** 2015-present F2F is a small non-profit from western Wisconsin that imports sustainably sourced products from Central America, like Coffee.

### **Teaching Experience**

**Pre-College** 2011 Two week course covering water cycle, nitrogen cycle, and basic environmental science with a GIS approach using open source cloud based software.

**Pre-College** 2012 Was a two week course covering plant biology, nutrient cycling and plant cells with the goal of developing confidence in minority high school students of their ability to succeed in college.

**SENCER Professional Development Conference** 8/2011 Attended weeklong SENCER meeting, Focus was educational principles connecting course content in science to real world scenarios.

**Peace Corp Campus Coordinator** 2012, 2013, 2014. Assisted the local Peace Corps outreach coordinator in setting up events on campus.

**Infusing Diversity into Curriculum Project** 2012-2013 through Nakatani Teaching and Learning Center, aimed at increasing diversity education in classroom.

**Prior Learning Assessment(PLA) Project** 2014 over the course of the summer and fall semester, I attended workshops on PLA in order to develop a assessment for bio 111.

**Plant Science Innovations Coordinator** 2013-2018.

**Online Teaching Short course** J-Term 2016

**Growth Mindset Community of Practice** Examined growth mindset in a classroom setting. 2017-18

**LAKES-Reu Mentor** Summer 2017, Summer 2018. Nutrient dynamics between sediment, and plants in terrestrial and aquatic systems.

### **Experience**

**Urban Watershed Field Internship**, 1/2005 - 5/2006 Field Intern Duties: Physical and Chemical monitoring of an urban waterway, presentation of results at 2006 UW-Systems Research day. Experience: watershed monitoring, water quality data loggers and nitrogenous waste chemical analysis.

**Sustainable Agriculture Kenya**, 5/2009 Learned about sustainable agricultural schools and practices in Kenya. Tour led by Emmanuel Emondi former director of Manor House Agricultural School.

**ACRES Student Farm**, 8/2007 – 12/2009 Farm Manager Duties: Grant acquisition, daily farm operations, supervising volunteers, irrigation, season extension, soil monitoring, development of business plan.

**University of Wyoming Research Assistantship**, 5/2007 – 12/ 2009 Entomology Masters Candidate

Duties: Monitoring, and development of Integrated Pest Management (IPM) for the Black Grass Bug. Assisting in research projects for Extension Entomology and collaborating with USDA Insecticide trials with conventional insecticides, fungal pathogens and organics in field trials and animal experiments.

**Lecturer UW-Stout** 9/2010 to present. Full time teacher of general education biology courses. As a lecturer in the biology department I have developed skills in all aspects of teaching majors and non-majors biology courses with a lab component and small group discussions.  
**USAID Farmer to Farmer in Nicaragua** 2011 Greenhouse Management, 2012 Pest Control  
**Landscape Gardener** 2014 to 2016. Duties: Management, planting and design assistance with local organic home gardens.

### Presentations

**Master Gardeners** 2011 “Management of Insects” Local pest insects and what can be done to control them.

**Community Garden Opening Meeting** 2013 “It’s all in the Organics” A brief talk on how to increase organic material in sandy soil.

**Community Garden Opening Meeting** 2014 “How to Garden in Sandy Soil” An overview of best management practices for gardening in sandy soils.

**Danish Folkskol** 2014 “Sustainability the Most Important of Buzzwords” discussion of broad based sustainability and why this environmental issue is paramount to all people.

**Master Gardeners** 2015 “Insects in the garden” Overview of common pest insects and how to start learning about Integrated Pest Management to control them.

**Chippewa Valley Nature Festival** 2016 Exploration of Insects, 2017 Insects in the Garden

**Prairie Enthusiasts** Insects in the Prairie

### Grants

#### **Student Research Grant**

2011-2012 1800\$ Worked with student to develop aquaponics system grant proposal. Our goal is to test methods of removing nitrogen from fish research facility water to reduce water use in facility.

2017-18 400\$ Received grant to explore growing of Symbiotic Combination of Bacteria and Yeast commonly used for Kombucha as a sustainable fabric

2017-18 1100\$ Received grant to test effects of stream sediment on growth of Oats. For potential land application of stream sediment

### Awards

**Chancelors Academic Staff Award for Excellence 2016**

**Outstanding STEMM Educator 2016**

**Oustanding Educator of the year 2016**

### Skills

Teaching, Entomological taxonomy, Sustainable Agriculture, Insect sampling and IPM. GIS proficiency, ARCGIS and ERDAS. Statistical proficiency, SAS,

**LANGUAGES:** English, Swedish