

## CURRICULUM VITAE

### **Kerry Workman Ford**

36248 Sparta Ave. Madera, Ca 93636

559-970-3544

kworkman@csufresno.edu

#### **Professional Training**

June 2011 K-12 Alliance SSD/Cadre Training  
June 2010 K-12 Alliance Cadre Training  
June 2009 K-12 Alliance Staff Developer Training  
2007 – 2008 U.C. Davis seeking PhD, Geology. PhD courses completed, dissertation not completed  
2000 – 2004 California State University, Fresno, M.S., Geology  
1997 – 1999 California State University, Fresno, B.S., Geology

#### **Appointments**

Lecturer, Department of Earth and Environmental Sciences, California State University, Fresno, CA 93740  
Fall 2004-present

Adjunct Instructor, Geology, West Hills College, Lemoore 2002 – present

Adjunct Instructor, Geology, College of the Sequoias, Hanford 2009 – present

Adjunct Instructor, Geology, SCCC, Fresno City, Clovis, and Reedley 2013 – present

Teaching Assistant, Department of Earth and Environmental Sciences, California State University, Fresno,  
Physical Geology 1999-2004

#### **Courses taught at CSU Fresno:**

*California Geology* – Interaction of earth, water, air, and life in California's earth system over geologic time. Human interaction with the environment.

*Natural Disasters & Earth Resources* – Processes and materials that produce the different geologic resources and hazards (earthquakes, volcanoes, floods, landslides). Plate tectonic theory (including continental drift) as the unifying model to explain geologic phenomena. Emphasizes the relationship between geology and humans.

*Planet Earth through Time* – Principles of geology used in the interpretation of the history of Earth as revealed in rocks and their fossils. Includes origin of the solar system, evolution of atmosphere and oceans, origin of life, rise and fall of the dinosaurs, plate tectonics, and ice ages.

*Introduction to Earth Science* – Introduction to earth science emphasizing K-6 teacher preparation. Addresses topics in earthquakes, volcanoes, rock and mineral formation, oceanography, astronomy, and meteorology.

*Introduction to Earth & Life Science* – General principles of earth science and biology with an emphasis on subjects appropriate to K-6 teacher training.

*Science & Nonsense* – Use of language, thought, and logic in science, distinguishing science fact from science fiction. Inductive and deductive methods, judgment, opinion, belief, and knowledge. A critical examination of contemporary pseudoscientific issues (creation "science," UFOs, astrology, etc.)

*Environmental Science* – Introduction to environmental science, focusing on environmental principles and

processes. Topics include human population and consumption, ecosystems and biodiversity, resource management and conservation, energy sources and technology use, dynamics, ecosystems, pollution and wastes, environmental economics and ethics, global changes, and tomorrow's world.

Geology Field Trip – Extended weekend field trip to areas of geologic interest including Yosemite National Park, Death Valley, or coastal California.

Intro Field Methods – Introduction to geologic fieldwork methods, including use of Brunton pocket transit and stereo aerial photographs, preparation/interpretation of maps and geologic cross-sections.

Environmental Earth & Life Science – Environmental problems related to population, energy and resource use, and pollution. Examines social and ethical issues along with technological and scientific factors. Independent work on case studies required.

Sedimentary Petrology – Origin, classifications, textures, and structures of sedimentary rocks; examination of samples in hand specimen and thin section. Required field component for field stratigraphy and sedimentology and for producing a formal field report.

Geology Laboratory Teaching Techniques – Laboratory safety, lab lecture techniques, earth and environmental science activity design, equipment setups, student evaluation methods and grading, peer teaching assessment, leading field trips, etc.

Scientific Writing - Organizing and writing the scientific report. Topics include: techniques and conventions in research methods, evaluation approaches, and presentation of results. Peer reviews.

Topics Courses – various courses taught through the Science & Math Education Center including Planetary Geology in conjunction with NASA, Geologic History, and Plate Tectonics

### **Courses taught at Community Colleges:**

**West Hills College** – Physical Geology, Historical Geology, Physical Science 1 (Chemistry & Physics), Physical Science 2 (Physics, Chemistry, Geology, Astronomy)

**College of the Sequoias** – Physical Geology, Earth Science

**SCCCD** – Physical Geology, Oceanography, Introduction to Earth Science, Physical Science 11 (Physics, Chemistry, Geology, Astronomy)

### **University/Community Service**

Department of Earth & Environmental Sciences:

Writing Across the Curriculum FLC 2017

Writing Across the Curriculum Workshop Participant 2016-2017

BA Liberal Arts Course Redesign 2016 - 2017

Summer Service-Learning Intensive Development 2016

Critical Thinking FLC 2013

Co-coordinator of Earth Day activities - 2012

Lab Coordinator – Fall 2007 – Spring 2011

Assessment Coordinator – Fall 2007-Spring 2009

Coordinator – Earth Science Week Fall 2005 – Fall 2009

Editor and Author – Geology/EES 1 Lab Manual 2004 – present

Science & Math Education Center:

Instructional Coordinator – K-12 Alliance/Kings Canyon/Sanger Science Institute – 2009 – 2011

Reviewer – Commission on Teacher Credentialing, Initial Program Review of Single Subject

Science Subject Matter 2010

### **Professional Memberships**

American Geophysical Union (AGU)

Geological Society of America (GSA)

### **Philanthropic Activities**

Sponsor, Workman Ford Department Service Award, \$500 Annually

### **Publications and Presentations:**

Workman Ford, Kerry, 2015, Innovation, Collaboration, and the Art of Teaching, Abstract 270736 presented at 2015 GSA Annual Meeting in Baltimore, Md, 1-4 Nov

Workman Ford, Kerry, 2014 A Modern Approach to the Traditional Textbook: Bringing Introductory Geology Courses into the 21st Century, Abstract ED21A-0706 presented at 2013 Fall Meeting, AGU, San Francisco, Calif., 9-13 Dec

Workman Ford, K. 2006. Stratigraphic positions of marine reptile and dinosaur specimens in the Moreno Formation, in the Tumey Hills and Panoche Hills, Fresno County, California. New Mexico Museum of Natural History and Science Bulletin 35:407–410.

Workman Ford, Kerry, 2004, Evidence for pre Cretaceous/Tertiary extirpation of marine reptiles and dinosaurs of the Moreno Formation, Fresno County, California, M.S. Thesis, California State University, Fresno, 125 pp.