

AMBER CATHERINE KERR

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EDUCATION

- 8/03 – present Ph.D. student, Energy and Resources Group, University of California, Berkeley, CA. *Advisor:* Professor John Harte.
- 9/01 – 9/02 M.S. (Earth Systems), Stanford University, Stanford, CA. *Thesis topic:* “Soil nitrogen dynamics under simulated global changes in a California annual grassland.” *Advisor:* Professor Chris Field.
- 9/98 – 6/01 B.S. (Earth Systems), Stanford University, Stanford, CA. *Advisor:* Professor Steve Schneider.
- 2/98 – 6/98 B.A. student, University of Queensland, Brisbane, Australia.
- 2/97 – 11/97 B.A. student, Central Queensland University, Mackay, Australia.

COURSEWORK

(partial list only)

- Three or more courses Environmental science, ecology (focus on plant ecology), biology, geology, economics, energy resources, calculus and linear algebra.
- One or two courses Physics, chemistry, statistics, climate theory, soil science, biogeochemistry, botany, agriculture, climate policy, optimization modeling, development theory.

SKILLS

- Computer Proficiency in Word, Excel, and PowerPoint; basic knowledge of MATLAB, Systat, JMP, UNIX, C programming, and HTML.
- Language Speak, read and write basic French; speak some Japanese.
- Other Freehand art; layout and graphic design; writing and editing.

WORK EXPERIENCE

- 8/04 – 5/05 Teaching assistant for Biology 1B, University of California, Berkeley.
- 7/04 – 8/04 Field assistant, Millennium Villages Project (led by Dr. Pedro Sanchez and Dr. Cheryl Palm), World Agroforestry Centre, Kisumu, Kenya.

- 8/03 – 7/04 Research assistant for Dr. Margaret Torn, Lawrence Berkeley National Laboratory. Studied how to improve inventories of non-CO₂ greenhouse gases in California.
- 4/03 – 8/03 MAP Sustainable Energy Fellow, Rocky Mountain Institute, Snowmass, CO. Investigated applications of biomimicry (nature-inspired design) for the building industry.
- 8/01 – 9/01 Technician, U.S. Department of Agriculture, Beltsville, MD. Assisted Dr. Lewis Ziska with studies on crop and weed responses to CO₂.
- 6/01 – 8/01 Research assistant for Brett Greene and Prof. John Harte, Rocky Mountain Biological Laboratory, Gothic, CO. Studied CO₂ flux in meadows across an elevational gradient.
- 1/00 – 9/02 Teaching assistant for Prof. Jane Woodward, Stanford University. Course: Civil and Environmental Engineering 173A (Energy Resources.)
- 6/00 – 8/00 Intern, NASA Goddard Space Flight Center, Greenbelt, Maryland. Analyzed satellite data on Chesapeake Bay water quality.
- 8/99 – 9/99 Research assistant for Prof. David Ackerly, Stanford University. Provided lab support for fire ecology and plant plasticity studies.

PUBLICATIONS

- 6/04 Brandt, A., Kerr, A., Torn, M., and Farrell, A. “A research roadmap for improving California’s inventory of non-CO₂ greenhouse gases.” Poster at California Climate Change Center 1st Annual Conference, Sacramento, CA, June 9, 2004.
- 8/02 Kerr, A., Cleland, E., Shaw, R., and Field, C. “Soil nitrogen availability under simulated global changes in a California annual grassland.” Presentation at ESA 86th Annual Meeting, Tucson, AZ, Aug. 6, 2002.
- 5/01 Greene, B., Kerr, A., and Lee, X. “A portable chamber system for measurements of whole-system CO₂ flux in remote montane ecosystems.” Presentation at AMS 25th Conference on Agricultural and Forest Meteorology, Norfolk, VA, May 21, 2002.

Last updated November 7, 2005.