

# Chloe P. H. Lewis

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## Current position

PhD candidate in John Harte's lab in Ecosystem Science, Policy and Management, University of California, Berkeley. Concentrations in soil science, applied math, and programming and program validation.

## Education

- 2005-2006 Nonmatriculated student; undergraduate and graduate classes at the University of Washington in soil science and applied math.
- 1992 Mathematics department, U. Washington in St. Louis.
- 1990 BA in mathematics, Reed College.

## Employment

- 2008-2011 Graduate student instructor for four semesters, including Resource Management and Modeling and Forest Resource Management. I specialize in introducing ecology students to mathematical tools and ideas.
- 2007-2008 Graduate student researcher on a Kearney grant studying N<sub>2</sub>O emissions in California; work included extracting disparate datasets into a SQL database, available for download and query: [http://nature.berkeley.edu/~chlewis/?page\\_id=2](http://nature.berkeley.edu/~chlewis/?page_id=2).
- 1994-2000 Microsoft Corporation. Software Development Engineer / Test. This role is responsible for writing test plans and the software for validating code. Wrote: data-flow C test code for COM objects, in Microsoft Research; entire test plan for the integration of HoTMaiL into MSN; code and test code for VC documentation format conversion and documentation translation to Japanese.
- 1993-1994 Temporary-employee proofreader at Microsoft. Taught myself programming.
- 1998-1990 Reactor operator and radiochemistry lab assistant, Reed College Reactor Facility.

## Grants

- 2009 Kearney grant 2009.004 for Mima mound simulation programming in Amundson lab.
- 2007 Kearney grant 2007.009 for N<sub>2</sub>O study in Amundson lab.

## Research

“Small-Scale Gopher and Plant Activity Organizes a Simulated Landscape Into Mound-Pool Topography” shown as a poster at AGU, Dec. 2011.  
Manuscript at <http://arxiv.org/abs/1112.3074>.