Andrew S. Reeve

School of Earth and Climate Sciences
University of Maine, asreeve@maine.edu

Seeking new opportunities that utilizing my programming and data analysis skills to address practical environmental problems. Open to working in any part of the Americas. Academic *Vitae* available upon request.

Education:

Syracuse University, Ph.D. in Earth Sciences Syracuse, NY (Aug. 1996)
Wetland groundwater hydrology & geochemistry investigated to evaluate importance of a peat basin in global carbon cycling.

Northern Illinois University, M.S. in Geology DeKalb, IL (Dec. 1990)
Assessed water chemistry and hydrogeology along coast of Yucatan (Mexico).

University of Illinois, B.S. in Geology Champaign, IL (May 1986)

Experience:

Professor, University of Maine Sept. 1996 to Present (Assistant to Full Professor)
Teach classes and conducting research on various hydrology (flow and chemistry) problems using field methods and computer tools.

Hydrogeologist, Argonne National Laboratory Sept. 1990 to Aug. 1991
Prepared work plans for hydrogeologic assessments. Performed statistical analysis evaluating sampling methodology. Assisted with groundwater sampling program.

Hydrogeologist, ATEC Associates, Inc. Sept. 1988 to Aug. 1990
Responsible for groundwater monitoring programs at RCRA facilities. Collected and interpreted groundwater flow and chemistry data.

Technician, Illinois State Geologic Survey Sept. 1985 to Aug. 1986
Prepared coal samples for analysis and assisted with flotation and shake-table tests.

Skills:

Routinely manipulate data sets with **Python** programming language and associated scientific software (Numpy, Scipy, H5py, Pandas, Matplotlib, Cython, Ipython, etc.) in linux computing environment.

Excellent knowledge of groundwater and surface-water **hydrology** and aquatic chemistry.

Work with a range of **computer modeling software** packages used by federal agencies (Modflow, Phreeqc, etc.), use personally prepared simple hydrologic models (TR55, GR4J) for classroom and research activities.

Knowledgeable about **basic numerical methods** for solving ordinary and partial differential equations (finite difference, finite volume, Runge Kutta, Adam's methods).

Basic knowledge of statistics (PCA, Cluster Analysis) and excellent ability to prepare **graphics for displaying data**.

Strong written and oral **communications skills**, comfortable speaking to large groups.

Intermediate knowledge of Spanish.