

# E. RACHEL HOCHMAN

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## EDUCATION

**MS Biology:** The University of North Carolina at Chapel Hill

August 2004

**MS Ecology:** University of California, Davis

December 1995

**BS Biology with Honors:** Bucknell University, Lewisburg, PA

June 1992

## SUMMARY OF QUALIFICATIONS

*A trained communicator with advising, teaching, mentoring, public speaking, and counseling skills.*

*An experienced project manager with a dedication to timeliness and a commitment to quality.*

*An enthusiastic problem-solver who recognizes avenues for positive change and activates them.*

*A life-long learner who seeks professional development and contributes to her fields of interest.*

*A team player with significant leadership and supervisory experience.*

## ADVISING AND TEACHING

**Wise Guide.** Wise Guide Tutoring and Mentoring, Morgantown, WV. February 2003 to present. Tutor, coach, mentor and provide enrichment in multiple subjects for elementary, middle and high school students, college and graduate students, and students with learning disabilities. Encourage students to internalize time management strategies, study skills and executive functioning techniques. Create resumes and cover letters for job seekers.

**Instructor.** Kaleidoscope, Morgantown, WV. Fall 2003. Excited 7<sup>th</sup> and 8<sup>th</sup> graders about environmental and earth sciences using hands-on, experiential lessons in- and out-of-doors.

**Director.** Career Resources Center and Internship Program, and **Liaison for Students with LD.** Sterling College. Craftsbury Common, VT. August 2001 to August 2003. Taught and developed new curriculum for core courses: *Work Search, Internship in Resource Management, Writing and Communications, College Community, and Culture.* Visited interns throughout the United States. Attracted potential intern employers. Corresponded weekly with interns. Created local job network. Assessed and served alumni needs. Created alumni contact network. Organized career events. Supervised staff. Created intake protocols and policy for students with LD, discussed accommodations with faculty, schedule workshops regarding teaching students with LD. Exercised draft horses.

**Academic Advisor.** University Honors College (UHC), Oregon State University. Corvallis, OR. September 2000 to June 2001. Advised 200 high-achieving students. Facilitated student discussion to evaluate courses, presented evaluations to faculty discussed opportunities for positive change. Designed and executed a quantitative assessment of programming needs. Facilitated student planning committee and quiz tournament team. Created peer-mentoring program. Recruited students.

**Academic Advisor.** General College, University of North Carolina at Chapel Hill. July 1998 to September 2000. Primary advisor for 1,200 students in 10 science majors. Managed team of faculty advisors and an assistant. Facilitated exploration of academics and careers. Established high impact list-serve. Designed well-received publications. Created website: [www.unc.edu/~hochman](http://www.unc.edu/~hochman).

**Teaching Assistant.** Biology Department, University of North Carolina at Chapel Hill. August 1997 to June 1998. Developed lectures, led discussions and graded student work for biology courses.

**Instructor.** Division of Science, Mathematics and Engineering, Sacramento City College, CA. January to June 1996. Taught cellular and molecular biology lab. Promoted understanding of laboratory techniques, the scientific process, and experimentation. Facilitated cooperative learning exercises.

**Instructor.** Outdoor Adventures. University of California, Davis. November 1993 to May 1997. Taught introductory and expedition sea-kayaking. Developed and taught guide school with co-leader.

**Instructor.** Long Lake Conservation Center. Palisade, MN. Summer 1993. Developed and taught: *Ecology, Bog, and Lake Organisms.* Led canoe trip in Boundary Waters for 12 11-13 year olds.

## HONORS

<b>Vermont State Representative</b> , National Academic Advising Association (NACADA)	2002-2003
<b>Advisor of the Year/Excellence in Advising Award</b> UNC-CH	2000
Nominated for <b>Advisor of the Year/Excellence in Advising Award</b> UNC-CH	1999
Membership in Phi Sigma	1992
Membership in Sigma Xi	1992
John T. Lowry Prize, Outstanding Graduate in Biology	1992
Young Botanist Recognition Award, Botanical Society of America	1992
Yarnell Prize, Achievement in Environmental Affairs	1990

## GRANTS AND SCHOLARSHIPS

Problem Based Service Learning Fellowship, Vermont Campus Compact	2003
Grant In Aid of Research, Sigma Xi, The Scientific Research Society	1999
Cooley Grant, Biology Department, University of North Carolina	1998
Alma Holland Beers Botany Scholarship, University of North Carolina	1998, 99
Merit Assistantship Graduate School, University of North Carolina	1997-98
Loeb Foundation Scholarship	1991-94
University of California, Davis Graduate Fellowship, Spring Quarter	1993
University of California, Davis Out of State Tuition Scholarship	1992-93
Bucknell University January Plan Grant	1991
McKenna Environmental Summer Grant	1989, 91

## CONSULTING AND RESEARCH

**The Nature Conservancy.** Durham, NC. January 1999 to January 2000. Primary Investigator/Consultant. Wrote 3 successful grant proposals to secure funding. Developed a dendro-ecological study to determine a method for developing adaptive management programs to enhance forested floodplain regeneration and growth in southeastern bottomland hardwood forests on damned rivers. Partnered with experts, foresters, United States Fish and Wildlife Service, NC Wildlife Resources Commission, non-profit agencies and local interests. Prepared and delivered presentations. Wrote literature reviews to support conservation efforts.

**Surface Water Resources, Inc.** Sacramento, CA. August 1996 to May 1997. Ecologist/Planner. Wrote Environmental Impact Report/Environmental Impact Statement chapters for large-scale water development projects. Collected, analyzed and synthesized data: fish and vegetation assemblages affected by wastewater treatment on an ephemeral creek. Led data collection team.

**University of California Cooperative Extension.** Davis, CA. May 1996 to August 1996. Researcher. Coordinated project design, implementation, and data collection: effects of salinity on rice growth. Hired and Supervised field assistant.

**Section of Evolution and Ecology, University of California, Davis.** November 1993 to December 1995. Trainee. Collected age and growth rate data from Chinook salmon. Statistically analyzed relationships between age, growth rate and biochemistry. Wrote manuscript to provided new information that influenced water development on the American River. Literature database development: Instream Flow Incremental Model, physiology and life-history of anadromous fish. Collaborated with consultants, CA Department of Fish and Game and U.S. Fish and Wildlife Service.

**Environmental Horticulture, University of California, Davis.** November 1994 to January 1995. Collaborative grant writing: Fire suppression/history of red fir in the Sierra Nevada.

**Montandon Marsh: Vegetation and Management, Bucknell University.** Lewisburg, PA. February 1991 to June 1992. Primary Investigator. Described, mapped vegetation. Established monitoring sites for rare plants and studied relationship of vegetation to topography and soil chemistry. Provided recommendations for restoration and management of marsh threatened by gravel mining/flood control to local conservation groups and the gravel mining company. Presentations to Pennsylvania Academy of Sciences and Society of Wetland Scientists.

## PUBLICATIONS AND PRESENTATIONS

- Hochman, E. R. March 2003. "Facilitating Reflection: Academic Advising in an Experiential Education Setting." Presentation. Northeast Regional National Academic Advising Association Conference. Newport, RI.
- Hochman, E. R., and Thomas, E. P. July 2002. "Using Rubrics for Formative Assessment." Invited Talk. Professional Development Conference on Learning Differences at The National Institute at Landmark College, Putney, VT.
- Hochman, E. R., W. Abrahamson, and J. G. Clark. 1996. "Montandon Marsh: A vegetation analysis of a potentially endangered wetland." *Journal of the Pennsylvania Academy of Sciences*. 70(1):22-29.
- Hochman, E. R., and M. Mangel. 1995. "Age, Size, Growth Rate and Na+K+ATPase Activities of Juvenile Chinook (*Oncorhynchus tshawytscha*) from the American River, California." Report to the court appointed Special Master on the American River case.
- Hochman, E. R. 1993. "Montandon Marsh: A vegetation analysis of a potentially endangered wetland." Poster Presentation. Society of Wetland Scientists National Meeting, Edmonton, Alberta, Canada.
- Hochman, E. R. 1992. "Montandon Marsh: A vegetation analysis of a potentially endangered wetland." Presentation. Pennsylvania Academy of Sciences, Philadelphia PA.

## CONFERENCES AND PROFESSIONAL DEVELOPMENT

Assistive Technology for Students with Learning Disabilities, Landmark College, Putney, VT	2003
Biology Success for Students with Learning Disabilities, Landmark College, Putney, VT	2003
NACADA Regional, Region 1, Newport, RI	2003
Problem Based Service Learning Institute, Middlebury, VT	2003
NACADA National, Salt Lake City, UT	2002
Learning Differences Workshop, Landmark College, Putney, VT	2002
National Environmental Careers Conference, Boston, MA	2002
NACADA Leadership Program	2002
Work College Consortium Conference, Warren Wilson College, Asheville, NC	2001
NACADA National, Toronto, ON	2001
InterAction! Communications Workshop, Corvallis, OR	2001
NACADA Regional, Region 9, Vancouver, BC	2001
NACADA Regional, Region 8, Sacramento, CA	2001
NACADA Regional, Region 2/3, Blacksburg, VA	2000
NACADA National, Denver, CO	1999

## VOLUNTEER EXPERIENCE

**Task Force Member.** WV Walks, West Virginia University. Morgantown, WV. Oct. 2003 to Oct. 2005.

**Alumni Admissions Representative.** Bucknell University. Lewisburg, PA. Sept. 1999 to Present.

**Ski Race Support.** Craftsbury Outdoor Center, Craftsbury, VT. January 2001.

## FOR FUN

Whitewater Kayaking	Downhill Skiing	Snowshoeing
Sea-Kayaking	Backpacking	Yoga
Cross-Country Skiing	Hiking	Cycling