

KAREN BERGER

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EDUCATION

- 1996--2000 **MASSACHUSETTS INSTITUTE OF TECHNOLOGY** Cambridge, MA
Ph.D. in Civil and Environmental Engineering
- Dissertation: *Surface Water – Groundwater Interactions.*
 - Supported by NASA Earth Sciences Fellowship, 1998 – 2000.
 - Supported by NSF Graduate Fellowship, 1996 – 1998.
- 1994--1995 **UNIVERSITY OF CALIFORNIA, BERKELEY** Berkeley, CA
M.S. in Energy and Resources
- Studied effects of climate change on hydrologic cycle.
 - Coursework included environmental policy, economics, and energy studies.
 - Supported by NSF Graduate Fellowship
- 1990--1994 **STANFORD UNIVERSITY** Stanford, CA
B.S. in Civil Engineering, with honors and distinction
- Selected for honors program in environmental science, technology and policy. Studied management alternatives for the Ogallala Aquifer
 - Spent terms at Stanford programs in Berlin, Germany and Washington, DC.
 - Terman Award for Excellence in Undergraduate Engineering
 - Phi Beta Kappa and Tau Beta Pi, junior inductee
 - Stanford Presidential Scholar

TEACHING EXPERIENCE

- Spring 2010 **UNIVERSITY OF ROCHESTER** Rochester, NY
Adjunct Assistant Professor, Earth and Environmental Sciences
- Course taught: EES 103: *Introduction to Environmental Science.*
- 2000--present **THE HARLEY SCHOOL** Rochester, NY
Teacher, Upper School Math and Science
- Have taught courses in Algebra, Geometry, Statistics, Trigonometry and Environmental Science. Developed environmental science curriculum.
- 1998--2000 **ESTANCIA HIGH SCHOOL** Costa Mesa, CA
- Tutored at-risk female students in math and science. Worked with two to five students once to twice weekly.
- Fall 1996 **MASSACHUSETTS INSTITUTE OF TECHNOLOGY** Cambridge, MA
- Teaching assistant for undergraduate course, *Introduction to Hydrology.* Led weekly recitation and graded assignments.
- Spring 1992 **STANFORD UNIVERSITY** Stanford, CA
- Co-taught undergraduate seminar, *Environmental Justice.*
 - Developed syllabus, invited speakers, and coordinated community service projects.

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ENVIRONMENTAL EXPERIENCE

- 2010--present **SUSTAINABILITY OVERSIGHT COMMITTEE** Brighton, NY
Chairperson.
- Developing mission and bylaws for committee.
 - Act as liaison between town staff and other boards.
- 2007 – 2009 **GREEN BRIGHTON TASK FORCE** Brighton, NY
Chairperson.
- Appointed by request of Town Supervisor.
 - Oversaw and coordinated all efforts of the citizen committee.
 - Acted as liaison between task force, town staff, and Town Board.
 - Interfaced with media and outside parties. Presented information at local intergovernmental and community meetings.
- 2004--present **CONSERVATION BOARD** Brighton, NY
- Evaluate the impact of proposed development projects on natural resources, including tree removals and action in vulnerable environments.
- 2000--2009 **THE HARLEY SCHOOL** Brighton, NY
- Served as faculty sponsor of the Upper School Environmental Club.
 - Organized a school-wide Recycling Committee to introduce recycling of paper, plastic/glass, and milk cartons throughout the building.
- Summer 1993 **NATIONAL RESEARCH COUNCIL** Washington, DC
- Prepared timeline of U.S. forestry use and development.
 - Assisted with report on the National Biological Survey.
 - *Supported by a Stanford Undergraduate Research Opportunities grant.*
- Winter 1992 **ENVIRONMENTAL DEFENSE FUND** Washington, DC
- Researched the Global Environment Facility's biodiversity portfolio and the extent of local and indigenous participation.
- UN CONFERENCE ON ENVIRONMENT AND DEVELOPMENT
PREPARATORY COMMITTEE MEETINGS III AND IV**
- March 1992 PrepCom IV: *Student representative on U.S. delegation* New York NY
- Advocated student concerns about sustainability issues to U.S. officials.
- August 1991 PrepCom III: *NGO representative* Geneva, Switzerland
- Addressed general assembly about youth role in targeted programs.
 - Lobbied U.S. delegation on population and environment concerns.
- Summer 1991 **WORLD BANK** Washington, DC
- Reviewed poverty and environment projects in 50 nations.
 - *Supported by Stanford In Government summer fellowship.*

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HONORS

- Engineering Education Scholar, 1998.
- Engineer in Training, 1994.
- Congress-Bundestag Youth Exchange Scholarship, 1989.

PRESENTATIONS

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| 2010 | NCSE ANNUAL CONFERENCE <ul style="list-style-type: none">• Co-facilitated break-out session: <i>Strategies to Promote Sustainable Urban Planning and Development: Partnerships Between Academia, Citizens, and Local Government.</i> | Washington, DC |
| 2008 | MONROE COUNTY LAND USE PROGRAM <ul style="list-style-type: none">• Presented information on Brighton's green initiatives at workshop on <i>Sustainable Municipal Planning.</i> | Rochester, NY |
| 1998 | AGU FALL MEETING <ul style="list-style-type: none">• Presentation: <i>Principal Modes of Linkage Between Equilibrium Hydrology, Climate, and Terrain Attributes</i> | San Francisco, CA |
| 1998 | AGU SPRING MEETING <ul style="list-style-type: none">• Presentation: <i>Hillslope Shape Controls on Soil Moisture and Hydrologic Variability</i>• Award for Outstanding Student Paper Presentation. | Boston, MA |
| 1996 | HYDROLOGY DAYS <ul style="list-style-type: none">• Presentation: Effects of warming on evapotranspiration rates using data from a field-warming experiment. | Fort Collins, CO |

PUBLICATION

Plaut-Berger K. and D. Entekhabi, 2001: Basin hydrologic response relations to distributed physiographic descriptors and climate, *Journal of Hydrology*, 247, 169-182.

COMMUNITY SERVICE

Current:

- Founding Board Member, ColorBrightonGreen.org, 2009 – present.

Recent Past:

- Member, Board of Trustees, Temple Beth David
- Board Member and Secretary, Greater Rochester Area Disc Association