

PROFILE

Conceptual synthesizer; Systems thinker; Critical and strategic thinker; Interdisciplinary problem solver; Creative data analyst and statistician; Non-territorial mediator and facilitator; Excellent oral, written, and public communicator

I am an ecological networks scientist who specializes in not specializing. Having grown up in a bilingual and bicultural home, I am comfortable with grey areas and multiple truths and am quick to hone in on common goals that unite differing perspectives. I am a passionate idealist when articulating broad goals, but a flexible pragmatist when implementing them. I enjoy surprises and converting obstacles into opportunities.

EXPERIENCE

[TEDGlobal Fellow](#) | www.ted.com

2010 - Present

Applying ecological network approaches to broader sustainability issues

- Global CO2 Trade Networks: Collaborative work with Microsoft Research and Global Footprint Network to map the complexity of carbon emissions flows among nations and explore creative incentives for global emissions reductions.
- EcoMimetic Modeling of Corporate Supply Webs: Application of food web visualization and analysis tools to map energy consumption within interconnected corporate supply chains to find points of leverage where small changes in production can lead to large reductions in emissions and costs.

Director | Sierra Nevada Research Institute, Yosemite Field Station, Yosemite Natl Park

2006 - Present

Founding Director of the first University of California research and education facility in Yosemite National Park

- Defined and implemented the institute's vision to foster synergy among science, art, education, minority outreach, and natural resource management
- Tripled the size of the facility and increased the user capacity >800% in 4 years
- Co-authored strategic plans for a network of UC research facilities in the Sierra Nevada mountains
- Improved University-Park relations for successful research and education partnerships
- Developed integrated programs in scientific visualization, environmental research, park internships, outdoor leadership and English literacy training for high school, undergraduate, and graduate students.

Research Scientist | Pacific Ecoinformatics and Computational Ecology Lab, Berkeley, CA

2004 - Present

Perform independent and collaborative research on ecological networks

- Ecological Networks: Researching how human-caused perturbations to natural ecosystems propagate through complex webs of ecological interdependence.

Research Scientist | United States Geological Survey, Yosemite Field Station, Yosemite, CA

2008 - Present

Perform collaborative research on problems at the interface of science and resource management

- Climate Change and Conservation: Researching threatened Sierra Nevada amphibian species through data integration and analysis to disentangle climate impacts vs. local anthropogenic disturbances
- Wilderness Protection: Developing cost effective tools to monitor and classify alpine wilderness meadows at regional scales and to guide legally defensible management decisions in the face of a changing climate

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EXPERIENCE (CONTINUED)

California Representative | Telemarkzone

2003 - Present

Non-profit work in knowledge transfer, networking, and outreach for sustainable sports-tourism development

- Co-developed Ski for Nature partnerships to develop “positive impact” ecotourism in emerging wilderness tourism markets such as the Arctic archipelago of Svalbard.

EDUCATION

- 1996 NSF Postdoctoral Fellow, Ecology, University of California, Berkeley, CA – Prof. Carla D’Antonio
- 1995 Ph.D. Ecology, Oregon State University, Corvallis, OR – Profs. Jane Lubchenco and Bruce Menge
- 1988 B.A. Biology, Brown University, Providence, RI

SYNERGISTIC ACTIVITIES AND SKILLS

Swall Institute (www.swall-institute.org)

Co-designed and built this residential work retreat to foster creative collaboration in an inspirational mountain setting. Demonstration project for “green” residential construction on a tight budget.

Awaken Café (www.awakencafe.com)

LLC Board member: Green business in downtown Oakland, CA; 2008 and 2010 East Bay Express “Best of the East Bay” award winner in multiple categories. Developer of Awaken Café’s plan to develop a CoWorking environment – a space that merges elements of an institute, a start-up incubator, and a coffee shop.

PUBLICATIONS

Over 20 publications in peer-reviewed journals including *Nature*, *Science*, the *Proceedings of the National Academy of Sciences*, *Ecology*, *Ecology Letters*, *Journal of Animal Ecology*, and *Ecological Applications*.

Of these papers 6 fall within the top 1% of the most highly cited papers in Ecology published that year, and one was recognized among the top 20 most highly cited papers of the decade.

Selected Publications:

Berlow, E. L., et al. 2009. [Simple prediction of interaction strengths in complex food webs. *Proceedings of the National Academy of Sciences* 106: 187-191. \(supplement\) \(news summary\)](#)

Berlow, E.L., et al Martinez. 2008. [The “Goldilocks factor” in food webs. *Proceedings of the National Academy of Sciences*. 105: 4079-4080.](#)

Navarrete, S.A. and Berlow, E. L. 2006. [Variable interaction strengths stabilize marine community structure. *Ecology Letters*. 9: 526-536.](#)

Brose, U., E. L. Berlow, and N. D. Martinez. 2005. [Scaling up keystone effects from simple to complex ecological networks. *Ecology Letters*. 8: 1317-1325.](#)

Williams R. J., Martinez, N. D., Berlow, E. L., Dunne, J. A. and Barabási, A-L. 2002: [Two degrees of separation in complex food webs. *Proceedings of the National Academy of Sciences* 99: 12913-12916.](#)

Sala, O. E., Chapin, F. S., III, Armesto, J. J., Berlow, E., et al. 2000: [Global biodiversity scenarios for the year 2100. *Science* 287: 1771-1774.](#)

Berlow, E. L. 1999. [Strong effects of weak interactions in ecological communities. *Nature* 398: 300-334.](#)