

## BIOGRAPHICAL SKETCH – Eric Berlow, Ph.D.

2524 Webster St, Berkeley CA 94705, USA  
<http://www.ericlberlow.net>

E-mail: [eric@vibrantdata.is](mailto:eric@vibrantdata.is)  
Phone: +1 209 625-6700

### (a) Professional Preparation

<u>Institution</u>	<u>Major</u>	<u>Degree</u>	<u>Year(s)</u>
Brown University, Providence, RI	Biology	BA	1988
Oregon State University, Corvallis, OR	Ecology	Ph.D.	1995
Department of Integrative Biology, University of California, Berkeley, CA	Biology	Postdoctoral Fellow	1996-1998

### (b) Appointments

2013-present	Co-FOUNDER/CEO	Vibrant Data Inc., San Francisco, CA
2008-present	RESEARCH SCIENTIST	USGS Yosemite Field Station, Yosemite NP, CA
2004-present	RESEARCH SCIENTIST	Pacific Ecoinformatics and Computational Ecology Laboratory, Berkeley CA

### (c) Products

#### 10 MOST RECENT SELECTED PEER-REVIEWED PUBLICATIONS

25% of publications in the top 1% most highly cited papers in Ecology the year published.

\* ISI top 1% of most highly cited ecology papers published that year

† ISI top 20 most highly cited papers in ecology/evolution of the decade (1998-2008)

Altmetrics: [ImpactStory](#) | Traditional Metrics: [Google Scholar](#)

1. **Berlow, E.L.**, R.A. Knapp, S.M. Ostoja, R.J. Williams, H. McKenny, J.R. Matchett, Q. Guo, G.M. Fellers, P. Kleeman, M. L. Brooks, L. Joppa. A network extension of species occupancy models in a patchy environment applied to the Yosemite Toad (*Anaxyrus canorus*). *PLOS One* 2013; 8: e72200. PMID: 23951296 [PubMed - in process]; PMCID: PMC3741202

2. Barnosky, A.D, E.A. Hadly, J. Bascompte, **E.L. Berlow**, J.H. Brown, M. Fortelius, W.M. Getz, J. Harte, A. Hastings, P.A. Marquet, N.D. Martinez, A. Mooers, P. Roopnarine, G. Vermeij, J.W. Williams, R. Gillespie, J. Kitzes, C. Marshall, N. Matzke, D.P. Mindell, E. Revilla, A.B. Smith. Approaching a state shift in Earth's biosphere. *Nature* 2012; 486: 52-58. PMID: 22678279.

3. Kéfi, S., **E.L. Berlow**, E.A. Wieters, S.A. Navarrete, O. Petchey, S.A. Wood, A. Boit, L.N. Joppa, K.D. Lafferty, R.J. Williams, N.D. Martinez, B.A. Menge, C.A. Blanchette, A. Iles, U. Brose. More than a meal: integrating non-feeding interactions into food webs. *Ecology Letters* 2012; 15: 291-300. PMID: 22313549

4. \***Berlow, E. L.**, J. A. Dunne, N.D. Martinez, P.B. Stark, R.J. Williams, and U. Brose. Simple prediction of interaction strengths in complex food webs. *Proceedings of the National Academy of Sciences* 2009; 106: 187-191. PMID: 19114659

5. **Berlow, E.L.**, U. Brose, N.D. Martinez. The “Goldilocks factor” in food webs. *Proceedings of the National Academy of Sciences* . 2008; 105: 4079-4080. PMID: 18334654

6. Navarrete, S.A. and **Berlow, E. L.** Variable interaction strengths stabilize marine community structure. *Ecology Letters* 2006; 9: 526-536. (Cover Photo). PMID: 16643298
7. Brose, U., **E. L. Berlow**, and N. D. Martinez. Scaling up keystone effects from simple to complex ecological networks. *Ecology Letters*. 2005; 8: 1317-1325. PMID: 17089649
8. \***Berlow, E. L.**, Neutel, A.-M., Cohen, J. E., De Ruiter, P., Ebenman, B., Emmerson, M., Fox, J. W., Jansen, V. A. A., Jones, J. I., Kokkoris, G. D., Logofet, D. O., McKane, A. J., Montoya, J. and Petchey, O. L. Interaction strengths in food webs: Issues and opportunities. *Journal of Animal Ecology*. 2004; 73: 585-598. DOI: 10.1111/j.0021-8790.2004.00833.x
9. \*Williams R. J., Martinez, N. D., **Berlow, E. L.**, Dunne, J. A. and Barabási, A-L. Two degrees of separation in complex food webs. *Proceedings of the National Academy of Sciences* 2002; 99: 12913-12916. PMID: 12235367
10. †, \* Sala, O. E., Chapin, F. S., III, Armesto, J. J., **Berlow, E.**, Bloomfield, J., Dirzo, R., Huber-Sanwald, E., Huenneke, L. F., Jackson, R. B., Kinzig, A., Leemans, R., Lodge, D. M., Mooney, H. A., Oesterheld, M., Poff, N. L., Sykes, M. T., Walker, B. H., Walker, M. and Wall, D. A. 2000: Global biodiversity scenarios for the year 2100. *Science* 2000; 287: 1771-1774. PMID: 10710299

#### **(d) Synergistic Activities**

- 2013 TED talk – “Mapping ideas worth spreading”: >0.25 million views in first month
- 2013 G.E. Architects of Innovation Fellow
- 2013 Advisor to Quid.com – Fast Company’s top 10 most innovative Big Data companies.
- 2010-2014 TED Fellow and TED Senior Fellow
- 2010 TED talk – “Simplifying Complexity”: >0.75 million views (Nov 2013)
- 2010 Co-authored paper awarded Thomson Reuter’s ScienceWatch “Fast Moving Fronts”.
- 2008 Co-authored paper awarded Top 20 most highly cited papers in Ecology for the decade.
- 2006 Alexander VON HUMBOLDT FELLOW

#### **(e) Collaborators & Other Affiliations**

**(1) Collaborators in the Past 48 Months:** David Gurman, Sean Gourley, Amy Heineke,, Anthony Barnosky, Elizabeth A. Hadly, Jordi Bascompte,, James H. Brown, Mikael Fortelius, Wayne Getz, John Harte, Alan Hastings, Pablo Marquet, Neo D. Martinez, Arne Mooers, Peter Roopnarine, Geerat Vermeij, John Williams, Rosemary Gillespie, Justin Kitzes, Charles Marshall1, Nicholas Matzke, David P. Mindell, Eloy Revilla, Adam Smith, Sonia Kefi, Evie Wieters, Sergio Navarrete, Owen L. Petchey, Spencer Wood, Alice Boit, Kevin Lafferty, Richard Williams, Bruce Menge, Carol Blanchette, Alison C. Iles, Ulrich Brose, Roland Knapp, Philip Stark, Steven Ostoja, Heather McKenny, John Matchett, Qinghua Guo, GaryFellers, Patrick Kleeman, Matthew Brooks

#### **(2) Graduate and Postdoctoral Advisors**

Jane Lubchenco and Bruce Menge – Ph.D. Advsiors  
Carla D’Antonio– Postdoctoral Advisor

#### **(3) Thesis Advisor and Postgraduate Scholar Sponsor**

Mark Bertness – B.A Thesis Advisor