

LEV R. GINZBURG
Abbreviated Curriculum Vitae
2001- present

Academic Appointments

2015-Present	Professor, Emeritus	<i>Department of Ecology & Evolution</i>
1983-2015	Professor	<i>Stony Brook University</i>

Honors

Chair of the Board: ACCE, an ecology Ph.D. training partnership of the Universities of Sheffield, Liverpool and York, UK, 2014-present

Leader: International Workshop “Non-Adaptive Selection”
Lausanne, Switzerland, July 7-12, 2014.

Organizer: Mathematical Ecology Semester, Centre Interfacultaire Bernoulli,
Lausanne, Switzerland, July to December 2014.

Honor Wall: Listed on the Stony Brook University Honor Wall, September 2013.

AAAS fellow: 2012, citing “distinguished contribution to the field of theoretical and applied biology.”

Invited Fellow: African Advanced Study Institute (STIAS) Stellenbosch, South Africa,
2010 and 2012.

Keynote Lecture: *The Space-Lifetime Hypothesis: Viewing Organisms in Four Dimensions*,
XX’s International Zoological Congress, Paris, France, August 2008.

Opening Address: *How Planets Move and Populations Grow*, Second International
Symposium in Mathematical Ecology, Spain, September 2003.

Senate Testimony: *Consistency and Transparency of Endangered Species Listings*, Testimony
to the U.S. Senate Committee on Environmental and Public Works,
Subcommittee on Fisheries, Wildlife, and Water, May 2001.

Recent Publications (2008 - present)

(This abbreviated list omits over 150 articles and 8 books published before 2008)

Borrelli, J., Allesina, S., Arditi, R., Chase, I., Damuth, J., Holt, R., Logofet, D., Rohr, R., Rossberg, A., Spencer, M., Tran, K., and **Ginzburg, L.R.**, 2015, Selection on stability across ecological scales. *Trends in Ecology and Evolution* , 30(7), 417-425.

Ginzburg L.R., Krebs C. (2015) Mammalian cycles: internally defined periods and interaction-driven amplitudes. PeerJ 3:e1180 <https://dx.doi.org/10.7717/peerj.1180>

Borrelli, J. and **Ginzburg, L.R.** 2014, Why there are so few trophic levels: selection against instability explains the pattern. *Food Webs*. 1:10-14

Arditi, R. and **Ginzburg, L.R.** 2014, Improving communications between theoretical ecologists, mathematical ecologists, and ecological modelers. *Theoretical Ecology* 7:21-22.

Arditi, R. and **Ginzburg, L.R.** 2012. *How Species Interact: Altering the Standard View on Trophic Ecology*. Oxford University Press, New York, NY.

Coylyvan, M, and **Ginzburg, L.R.** 2012, Ecological laws. In Oxford Bibliographies Online: Ecology. Ed. David Gibson: Oxford University Press, New York.

Ginzburg, L.R. 2011, Recollections of unforgettable encounters with Alexey Andreevich Lyapunov. In “A. Lyapunov: 100 year anniversary of birth”, edited by Lyapunova, N.A., GEO, Novosibirsk, Russia, p.322-323 (in Russian).

- Colyvan, M. and **Ginzburg, L.R.** 2010. Analogical thinking in ecology: looking beyond disciplinary boundaries. *Quarterly Review of Biology* 2:171-182.
- Ginzburg, L.R.**, Burger, O., and Damuth, J. 2010. The May threshold and life history allometry. *Biology Letters* 6:850-853.
- Ginzburg, L.R.** and Ferson, S. 2009. Citations, anonymous ideas, and ecological engineering. *Evolutionary Ecology Research-Special Issue honoring Larry Slobodkin*, 11(3).
- Inchausti, P. and **Ginzburg, L.R.** 2009. Maternal effects mechanism of population cycling: a formidable competitor to the traditional predator-prey view. *Phil. Tran. R. Soc. B.* 364:1117-1124.
- Burger, O. and **Ginzburg, L.R.**, (2009). On size and extinction: a random walk model predicts the body size of lowest risk for mammals. *Evolutionary Ecology Research*, 11(7), 1017-1029.
- Ginzburg, L.R.** and Damuth, J. 2008. The space-lifetime hypothesis: viewing organisms in four dimension, literally. *American Naturalist* 171:125-131.
- Ginzburg, L.R.**, and Jensen, C.XJ. 2008. From controversy to consensus: the indirect interference functional response. *SIL Biology* 30/2, April 2008.

Most Influential Publications

Theoretical Ecology

- Arditi, R. and **Ginzburg, L.R.** 2012. *How Species Interact: Altering the Standard View on Trophic Ecology*. Oxford University Press, New York, NY.
- Ginzburg, L.R.** and Colyvan, M. 2004. *Ecological Orbits: How Planets Move and Populations Grow*. Oxford University Press, New York, NY.
- Abrams, P.A. and **Ginzburg, L.R.** 2000. The nature of predation: prey dependent, ratio dependent, or neither? *Trends in Ecology and Evolution* 15: 337-341.
- Ginzburg, L.R.** and Taneyhill, D.E. 1994. Population cycles of forest Lepidoptera: a maternal effect hypothesis. *Journal of Animals Ecology* 63: 79-92.
- Ginzburg, L.R.** and Akçakaya, H.R. 1992. Consequences of ratio-dependent predation for steady state properties of ecosystems. *Ecology* 73 (5): 1536-1543.
- Arditi, R. and **Ginzburg, L.R.** 1989. Coupling in predator-prey dynamics: ratio dependence. *Journal of Theoretical Biology* 139: 311-326.

Applied Ecology and Risk Analysis

- Pastorok, R., Bartell, S., Ferson, S., and **Ginzburg, L.R.** (editors) 2001. *Ecological Modeling in Risk Assessment*. CRC Press, Boca Raton, FL.
- Ferson, S. and **Ginzburg, L.R.** 1996. Different methods are needed to propagate ignorance and variability. *Reliability Engineering and Systems Safety* 54:133-144.
- Ginzburg, L.R.**, Ferson, S., Akçakaya, H.R. 1990. Reconstructability of density dependence and the conservative assessment of extinction risk. *Conservation Biology* 4: 63-70.
- Ginzburg, L.R.**, Slobodkin, L.B., Johnson, K and Bindman, A.G. 1982. Quasiextinction probabilities as a measure of impact on population growth. *Risk Analysis* 2: 171-181.

Population Genetics

- Lewontin, R.C. **Ginzburg, L.R.** and Tuljapurkar S.D. 1978. Heterosis as an Explanation for the Large Amount of Genic Polymorphism. *Genetics* 88(1): 149-169.