

Jordi Bascompte¹

Research Profile and Impact

Bascompte's research combines mathematical models, simulations, and data set analyses to address basic and applied problems in ecology. During the early stages of his research he studied the spatial dimension of population and community dynamics. This provided novel approximations to attempt to answer unresolved questions in conservation biology such as how many patches are necessary for the persistence of a metapopulation. More recently, he has applied network theory to assess the structure and robustness of the web of life. Bascompte's work has also had a clear influence on other fields. For example, his research on mutualistic networks has influenced work on systemic risk on finance and other man-made cooperative networks. The impact of Bascompte's work is reflected in his recognition by Thompson Reuters as one of the most influential scientists. He has an h-index of 54, has authored several highly cited papers, and regularly publishes his work in the top scientific journals including *Nature* (8 papers), *Science* (7 papers), and *PNAS* (8 papers).

Education

- 1991–1994 | **PhD** in Ecology, University of Barcelona, Spain
- 1985–1991 | **BS** and **MS** in Biology, University of Barcelona, Spain

Professional Experience

- 2015– | **Full Professor** of Ecology, Department of Evolutionary Biology and Environmental Studies, University of Zurich, Switzerland
- 2008–2014 | **Full Professor**, Spanish Research Council, Sevilla, Spain
- 2000–2007 | **Associate Professor**, Spanish Research Council, Sevilla, Spain
- 1998–1999 | **Postdoctoral Fellow**, National Center for Ecological Analysis and Synthesis, University of California, Santa Barbara, USA
- 1996–1997 | **Postdoctoral Fellow**, Department of Ecology and Evolutionary Biology, University of California, Irvine, USA

Main Awards and Nominations

- Member of the World Economic Forum's Expert Network (2018–)
- British Ecological Society's Marsh Book Award (2016)
- Highly cited scientist (Thomson Reuters, 2014–)
- European Research Council's Advanced Grant (2011)
- Spanish National Research Award in Environmental Sciences (2011)
- Board of Reviewing Editors at *Science* (2010-2016)
- Ideas and Perspectives Editor, *Ecology Letters* (2008–2014)
- Ecological Society of America's George Mercer Award (2007)
- European Young Investigator Award (2004)

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Books

4. **Bascompte J.** and Jordano P.
*Mutualistic Networks*²
Princeton University Press (2014)
3. **Bascompte J.** and Luque B.
Evolución y Complejidad
Universidad de Valencia (2012). Language: Catalán and Spanish
2. Solé R.V. and **Bascompte J.**
Self-Organization in Complex Ecosystems
Princeton University Press (2006)
1. **Bascompte J.** and Solé R.V. editors.
Modeling Spatiotemporal Dynamics in Ecology
Springer-Verlag, Berlin (1998)

Selected Papers

5. Gilarranz L.J., Rayfield B., Liñan-Cembrano G., **Bascompte J.** and Gonzalez A.
Effects of network modularity on the spread of perturbation impact in experimental metapopulations
Science 357: 199-201 (2017)
4. Rohr R.P., Saavedra S. and **Bascompte J.**
On the structural stability of mutualistic systems
Science 345: 1253497 (2014)
3. Rezende E., Lavabre J.E., Guimarães P.R. Jr., Jordano P. and **Bascompte J.**
Non-random coextinctions in phylogenetically structured mutualistic networks
Nature 448: 925-928 (2007)
2. **Bascompte J.**, Jordano P. and Olesen J.M.
Asymmetric coevolutionary networks facilitate biodiversity maintenance³
Science 312: 431-433 (2006)
1. **Bascompte J.**, Jordano P., Melián C.J. and Olesen J.M.
The nested assembly of plant-animal mutualistic networks⁴
Proceedings of the National Academy of Sciences USA 100: 9383-9387 (2003)

²It received the Marsh Book of the Year Award of the British Ecological Society in 2016

³Among the "all time top papers" in the category of Ecology of Faculty of 1000 Biology. It received the George Mercer Award of the Ecological Society of America for the best paper published in the previous two years by an author below 40 years.

⁴Most cited research paper with 844 citations (Web of Science)