

OFER MALCAI

ACADEMIC POSITION

Hebrew University Faculty of Law, Lecturer (2016 –)

EDUCATION

LL.D., Hebrew University of Jerusalem (2015).

Dissertation: “Second-Order Normative Propositions and the Relationship between Substance and Procedure”.

Supervisor: Prof. David Enoch

Ph.D. (Physics), Hebrew University of Jerusalem (2003).

Dissertation: “Generic Mechanisms for the Emergence of Power Laws and Fractal Structures”.

Supervisor: Prof. Ofer Biham.

LL.B., the Hebrew University of Jerusalem (*magna cum laude*).

M.Sc. (Physics), the Hebrew University of Jerusalem (*magna cum laude*).

B.Sc. (Physics and Mathematics), the Hebrew University of Jerusalem.

RESEARCH FELLOWSHIPS

Post-Doctoral Fellowship, Centre for Moral and Political Philosophy, Hebrew University (2015-2016).

Post-Doctoral Fellowship, Safra Center for Ethics, Tel-Aviv University (2014-2015).

Research Fellowship for excellent doctoral students, the Faculty of Law, Hebrew University (2010-2013).

Research Assistant Fellowship, the Racah Institute of Physics, Hebrew University (2001-2002).

Doctoral Fellowship, the Racah Institute of Physics, Hebrew University (1996-2000).

TEACHING

Lecturer, Hebrew University, Faculty of Law (2016 –).

Evidence Law; Law and Philosophy

Lecturer in physics, the Azrieli College of Engineering, Jerusalem (2006-2014).

Mechanics; Electricity and Magnetism

Junior teacher, the Hebrew University (1996-2000).

Mechanics and Special Relativity; Electricity and Magnetism

PRACTICAL LEGAL EXPERIENCE

Supreme Court of Israel, Clerk to Justice Esther Hayut (2004-2005).

PUBLICATIONS

1. Malcai, O. The Alternative Futures of Law and Economics. *Jerusalem Review of Legal Studies* (forthcoming 2017).
2. Malcai, O., and Levine-Schnur, R. When Procedure Takes Priority: A Theoretical Evaluation of the Contemporary Trends in Criminal Procedure and Evidence Law. *Canadian Journal of Law & Jurisprudence* 30, no. 1, 187-213 (2017).
3. Malcai, O. and Levine-Schnur, R. Which Came First, the Procedure or the Substance? Justificational Priority and the Substance-Procedure Distinction. *Oxford Journal of Legal Studies* 34, 1-19 (2014). doi:10.1093/ojls/gqt032
4. Malcai, O. and Levine-Schnur, R. Procedure and Substance: An Analytical Perspective with Some Possible Normative Implications. In *Procedures*. Talya Fisher and Issi Rosen-Zvi (eds.), Tel Aviv UP (2014), p. 93 (Hebrew).
5. Malcai O. Notes on David Enoch's Taking morality seriously. *Iyyun* 61, 33-44 (2012) (Hebrew).
6. Klass, O.S., Biham, O., Levy, M., Malcai, O. and Solomon, S. The Pareto Power-Law and Efficient Markets. *The European Physical Journal B—Condensed Matter and Complex Systems* 55, 143–147 (2007).
7. Klass, O.S., Biham, O., Levy, M., Malcai, O. and Solomon, S. The Forbes 400 and the Pareto Wealth Distribution. *Economics Letters* 90, 290-295 (2006).
8. Malcai, O., Shilo, Y. and Biham, O. Dissipative sandpile models with universal exponents. *Physical Review E* 73, 056125 (2006).
9. Solomon, S., Richmond, P., Biham, O. and Malcai, O. Co-evolutionist stochastic dynamics: emergence of power-laws. In *Cognitive Economics: An Interdisciplinary Approach*. Paul Bourguine and Jean-Pierre Nadal (eds.), Springer (2004), p. 169.
10. Malcai, O., Biham, O., Richmond, P. and Solomon, S. Theoretical analysis and simulations of the generalized Lotka-Volterra model. *Physical Review E* 66, 031102 (2002).
11. Biham, O. and Malcai, M. Emergence of fractal clusters in sequential adsorption processes. In *Dynamics and thermodynamics of systems with long range interactions, Lecture Notes in Physics*. T. Dauxois, S. Ruffo, E. Arimondo and M. Wilkens (eds.) Springer (2002), p. 448.
12. Biham, O., Huang, Z.-F, Malcai, O. and Solomon, S. Long-time fluctuations in a dynamical model of stock market indices. *Physical Review E* 64, 026101 (2001).
13. Biham, O., E. Milshtein, E. and Malcai, O. Evidence for universality within the classes of deterministic and stochastic sandpile models. *Physical Review E* 63, 061309 (2001).

14. Malcai, O., Biham, O. and Solomon, S. Power-law distributions and Levy-stable intermittent fluctuations in stochastic systems of many autocatalytic elements. *Physical Review E* 60, 1299 (1999).
15. Biham, O. and Malcai, O. Pattern formation and a clustering transition in power-law sequential adsorption. *Phys. Rev. E* 59, R4713 (1999).
16. Biham, O., Malcai, O., Levy, M. and Solomon, S. Generic emergence of power law distributions and Levy-stable intermittent fluctuations in discrete logistic systems. *Phys. Rev. E* 58, 1352 (1998).
17. Avnir, D., Biham, O., Lidar, D.A. and Malcai, O. Is the geometry of nature fractal? *Science* 279, 39 (1998).
_____. Reply to a comment by B.B. Mandelbrot: *Science* 279, 783 (1998);
_____. Reply to a comment by A.A. Tsonis: *Science*, 279, 1614 (1998).
18. Malcai, O., Lidar, D.A., Biham, O. and Avnir, D. Scaling range and cutoffs in empirical fractals. *Phys. Rev. E* 56, 2817 (1997).
19. Avnir, D., Biham, O., Lidar, D. and Malcai, O. On the Abundance of Fractals. In *Fractal Frontiers*. M.M. Novak and T.G. Dewey (eds.), World Scientific, (1997).
20. Hamburger, D., Malcai, O., Biham O. and Avnir, D. Randomness and apparent fractality. In *Fractals and Chaos in Chemical Engineering*. World Scientific (1996).