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).

WORK IN PROGRESS

1. Second-Order Normative Propositions and Metaethical Neutrality.
   (under review).

2. Should Responsibility Replace Equality?
   O. Malcai and R. Segev (under review).

3. Which Came First, the Procedure or the Substance? Two Notions of Priority.
   O. Malcai and R. Levine-Schnur (under review).

4. Do Chances Matter for Distributive Justice?

5. Reasonable Self-Doubt: A Shakespearean Lesson
   O. Malcai and R. Rivlin

6. The Discursive Dilemma and Justificational Priority.

7. Collective Action and Social Contagion: The Case of Community Gardens
   M. Shur-Ofry and O. Malcai

PUBLICATIONS

1. Which Came First, the Procedure or the Substance? Justificational Priority and the Substance-Procedure Distinction.
   O. Malcai and R. Levine-Schnur, *Oxford Journal of Legal Studies* 34: 1-19 (2014), doi:10.1093/ojls/gqt032

2. Procedure and Substance: An Analytical Perspective with Some Possible Normative Implications.
   O. Malcai and R. Levine-Schnur,
   in *Procedures* (Talya Fisher and Issi Rosen-Zvi eds., Tel Aviv UP, forthcoming 2014) (Hebrew).

3. Notes on David Enoch's Taking morality seriously.
   Iyyun 61, 33-44 (2012) (Hebrew).

4. The Pareto Power-Law and Efficient Markets.
   O.S. Klass, O. Biham, M. Levy, O. Malcai, and S. Solomon,
   The European Physical Journal B—Condensed Matter and Complex Systems, 55, 143–147 (2007).

5. The Forbes 400 and the Pareto Wealth Distribution.
   O.S. Klass, O. Biham, M. Levy, O. Malcai and S. Solomon,
   Economics Letters 90, 290-295 (2006).

6. Dissipative sandpile models with universal exponents.
   O. Malcai, Y. Shilo and O. Biham,
   Physical Review E 73, 056125 (2006).

7. Co-evolutionist stochastic dynamics: emergence of power-laws.
S. Solomon, P. Richmond, O. Biham and O. Malcai,
in *Cognitive Economics: An Interdisciplinary Approach*,
Edited by: Paul Bourgine and Jean-Pierre Nadal
(Springer, 2004), p. 169.

8. Theoretical analysis and simulations of the generalized Lotka-Volterra model.
O. Malcai, O. Biham, P. Richmond and S. Solomon,
Physical Review E 66, 031102 (2002).

9. Emergence of fractal clusters in sequential adsorption processes.
O. Biham and O. Malcai,
proceedings of the Les-Houches workshop (Feb. 18-22, 2002),
in *Dynamics and thermodynamics of systems with long range interactions, Lecture Notes in Physics*, Eds. T. Dauxois, S. Ruffo, E. Arimondo and M. Wilkens, Springer (2002), p. 448.

10. Long-time fluctuations in a dynamical model of stock market indices.
O. Biham, Z.-F.Huang, O. Malcai and S. Solomon,
Physical Review E 64, 026101 (2001).

11. Evidence for universality within the classes of deterministic and stochastic sandpile models.
O. Biham, E. Milshtein and O. Malcai,
Physical Review E 63, 061309 (2001).

12. Power-law distributions and L'evy-stable intermittent fluctuations in stochastic systems of many autocatalytic elements.
O. Malcai, O. Biham and S. Solomon,
Physical Review E 60, 1299 (1999).

13. Pattern formation and a clustering transition in power-law sequential adsorption.
O. Biham, O. Malcai, D.A. Lidar and D. Avnir,
Phys. Rev. E 59, R4713 (1999).

14. Generic emergence of power law distributions and Levy-stable intermittent fluctuations in discrete logistic systems.
O. Biham, O. Malcai, M. Levy and S. Solomon,
Phys. Rev. E 58, 1352 (1998).

15. Is the geometry of nature fractal?
D. Avnir, O. Biham, D. Lidar and O. Malcai,
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).

16. Scaling range and cutoffs in empirical fractals.
O. Malcai, D.A. Lidar, O. Biham and D. Avnir,
Phys. Rev. E 56, 2817 (1997).

17. On the Abundance of Fractals.
    D. Avnir, O. Biham, D. Lidar and O. Malcai,
    in *Fractal Frontiers*, Ed. M.M. Novak and T.G. Dewey (World Scientific, 1997).

18. Randomness and apparent fractality.
    D. Hamburger, O. Malcai, O. Biham and D. Avnir,
    in *Fractals and Chaos in Chemical Engineering*
    (World Scientific, 1996).