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Moshé Machover

CURRICULUM VITÆ

- 1936 Born in Tel-Aviv, Palestine
- 1959 MSc in Mathematics (maj) with Physics and Statistics, the Hebrew University of Jerusalem (HUJ)
- 1958–59 Assistant, Dept of Maths, HUJ
- 1959–60 UNESCO Fellow, Polish Academy of Sciences, Warsaw
- 1962 PhD (Maths), HUJ
- 1960–64 Lecturer in Maths, HUJ
- 1964–66 Visiting Lecturer, Dept of Maths, University of Bristol, England
- 1966–68 Lecturer in Maths, HUJ
- 1968– Department of History and Philosophy of Science, Chelsea College, Later merged into King's College (KQC), University of London
- 1973–95 Reader in Mathematical Logic, University of London
- 1995–99 Professor of Philosophy, University of London
- 1999– Emeritus Professor of Philosophy, University of London

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List of Publications

Books

- 1977: *A Course in Mathematical Logic* (with J L Bell), North-Holland, 599pp. (Second printing 1986).
- 1983: *Laws of Chaos, A Probabilistic Approach to Political Economy* (with E Farjoun), Verso, 264pp.
- 1996: *Set Theory, Logic and their Limitations*, Cambridge University Press, ix + 288pp. Reprinted 1998.
- 1998: *The Measurement of Voting Power; Theory and Practice, Problems and Paradoxes* (with D S Felsenthal), Edward Elgar Publishing, xviii + 322pp.

Reports and Printed Lecture Notes

- 1962: *Theory of Transfinite Recursion*. (Hebrew) PhD Thesis, Hebrew University of Jerusalem.
- 1964: *Decision Procedure for Wellformedness in Lesniewski's Grammar*. Published as Report #16 of Applied Logic Branch, HUI, Israel, for US Office of Naval Research, Information Systems Branch, 15pp.
- 1967: *Non-standard Analysis without Tears*. Published as Report #27 of Applied Logic Branch, HUI, Israel, for US Office of Naval Research, Information Systems Branch, 56pp.
- 1968: *Projective Geometry*. Israel Centre for Science Education, Jerusalem, Israel, 47pp.
- 1968: *Axiomatic Arithmetic*. Israel Centre for Science Education, Jerusalem, Israel, 30pp.
- 1969: *Lectures on Non-Standard Analysis* (with J. Hirschfeld). #94 in the series Lecture Notes in Mathematics, Springer, 79pp.
- 1994: *The Power and Price of a Voter – A Note on the Shapley–Shubik and Banzhaf Indices* (with D S Felsenthal). Discussion Paper DP 2/94 published July 1994 by LSE Centre for the Philosophy of the Natural and Social Sciences.

- 1996: *Ternary Voting Games* (with D S Felsenthal). Discussion Paper No. 98, Center For Rationality and Interactive Decision Making, The Hebrew University of Jerusalem, February 1996.
- 1997: Interview (19.11.97) for “Decision-making in the EU Council of Ministers”, a radio documentary, broadcast 5.12.97 on the Radio of the Finnish Broadcasting Company.
- 2000: *Enlargement of the EU and Weighted Voting in its Council of Ministers* (with D S Felsenthal). VPP 01/00 Centre for Philosophy of Natural and Social Science, LSE, 3 + 6opp. <<http://www.lse.ac.uk/votingpower>>
- 2001: *The Treaty of Nice and Qualified Majority Voting* (with D S Felsenthal). VPP 02/01 Centre for Philosophy of Natural and Social Science, LSE. <<http://www.lse.ac.uk/votingpower>>
- 2001 “A Nice Trap” (Analysis of the articles in the Treaty of Nice dealing with the decision rule of the EU Council of Ministers). Published in *Polarities* (Newsletter of the Finnish Institute). <<http://www.muistuttaja.com/lausti/focus/2001/machover.html> >

Papers in refereed journals and collections

- 1960: “Note on sentences preserved under direct products and powers”. *Bull de l'Acad Polonaise des Sciences, Ser Sc Math*, **3**:519–23.
- 1961: “The theory of transfinite recursion”. *Bull American Math Soc*, **67**:575–8.
- 1966: “Contextual determinacy in Lesniewski's grammar”. *Studia Logica*, **19**:47–57.
- 1970: “A note on non-standard topology”, (with I. Juhász). *Indag Math*, **31**:482–4.
- 1983: “Towards a new philosophy of mathematics”. *British Journal Philosophy of Science*, **34**:1–11.
- 1985: “Probability, economics and the labour theory of value”, (with E. Farjoun). *New Left Review* **152**:95–108.
- 1992: “After two centuries, should Condorcet's voting procedure be implemented?”, (with D S Felsenthal). *Behavioral Science*, **37**:250–74.
- 1992: “Sequential voting by veto: Making the Mueller–Moulin algorithm more versatile”, (with D S Felsenthal). *Theory and Decision*, **33**:223–40.

- 1993: “The place of nonstandard analysis in mathematics and in mathematics teaching”, *British Journal Philosophy of Science*, **44**:205–12.
- 1995: “Postulates and paradoxes of Voting Power — A critical re-appraisal”, (with D S Felsenthal). *Theory and Decision*, **38**:195–229.
- 1995: “Who ought to be elected and who is actually elected? — An empirical investigation of 92 elections under three procedures”, (with D S Felsenthal). *Electoral Studies*, **14**:143–69.
- 1995: “Is this the way to elect a Prime Minister? The paradoxical properties of an electoral procedure used in Israel”, (Hebrew; with D S Felsenthal). *Medinah, Mimshal ve-Yahasim Beinle’umiyim*, (*State, Government and International Relations*, an Israeli Journal of Political Science), **40**:5–30.
- 1995: “Power, power indices, and blocking power: A comment on Johnston”, (with G. Garrett and I. McLean). *British Journal of Political Science*, **25**:563–568.
- 1996: “Alternative forms of the Shapley value and the Shapley–Shubik index”, (with D S Felsenthal). *Public Choice*, **87**:315–318.
- 1997: “The weighted voting rule in the EU Council of Ministers, 1958–1995 — Intentions and outcomes”, (with D S Felsenthal). *Electoral Studies*, **16**:33–47.
- 1997: “Analysis, Non-Standard”. 3000-word entry in the *Routledge Encyclopedia of Philosophy*.
- 1997: “Tenary voting games”, (with D S Felsenthal). *International Journal of Game Theory*, **26**:335–351.
- 1998: “The bicameral postulates and indices of a priori voting power”, (with D S Felsenthal and W Zwicker). *Theory and Decision*, **44**:83–116.
- 1998: “The product paradox of voting power”, (with D S Felsenthal). *Public Choice*, **96**:81–92.
- 1999: “Minimizing the mean majority deficit: The second square-root Rule”, (with D S Felsenthal). *Mathematical Social Sciences*, **37**:25–37.
- 2000: “Notions of a priori voting power: Critique of Holler and Widgrén”, *Homo Oeconomicus*, **XVI(4)**:415–25. Also *Notizie di Politea*, **59**:29–38.
- 2001: “Myths and meanings of voting power: Comments on a symposium”,

(with D S Felsenthal). *Journal of Theoretical Politics* **13**:81–97.

- 2001: “The Treaty of Nice and qualified majority voting”, (with D S Felsenthal). *Social Choice and Welfare* **18**:431–464.
- 2001: “Models and reality: The curious case of the absent abstention” (with D S Felsenthal) in Holler M.J. and Owen G. (eds.) *Power Indices and Coalition Formation*, Kluwer Academic Publishers; pp. 87–103.
- 2001: “Misreporting Rules”, (with D S Felsenthal). *Homo Oeconomicus* **XVII (4)**: 371–390.
- 2002: “Annexations and Alliances: When are blocs advantageous a priori?”, (with D S Felsenthal), *Social Choice and Welfare* **19**:295–312.
- 2002: “The whole and the sum of its parts: Formation of blocs revisited”, (with D S Felsenthal); in Holler M.J., Kliemt H, Schmidtchen D and Streit M. E., (eds.) *Power and Fairness* (Jahrbuch für Neue Politische Ökonomie Vol 20); Mohr Siebeck, pp. 279–291.
- 2002: “Comment on Schmidtchen and Steunenberg”, in Holler M.J., Kliemt H, Schmidtchen D and Streit M. E., (eds.) *Power and Fairness* (Jahrbuch für Neue Politische Ökonomie Vol 20); Mohr Siebeck, pp. 225–227.
- 2002 “Comment on Braham and Steffen”, in Holler M.J., Kliemt H, Schmidtchen D and Streit M. E., (eds.) *Power and Fairness* (Jahrbuch für Neue Politische Ökonomie Vol 20); Mohr Siebeck, pp. 349–353.
- 2002: “Models and reality: The curious case of the absent abstention” (with D S Felsenthal) *Homo Oeconomicus* **XIX (3)**: 297–310. [Same paper as in the 2001 volume edited by Holler & Owen]
- 2003: “Tony Blair's dilemma”, *Homo Oeconomicus* **XIX(4)**: 576–581.

Forthcoming

- 2003 “Qualified majority voting: The effect of the quota” (with D Leech), forthcoming in Yearbook on New Political Economy.
- 2003 “The Voting Power Approach: Response to Philosophical Reproach”(with D S Felsenthal), forthcoming in *European Union Politics* 4:4 (December 2003), 493–499, 513–517.

- 2004 “L S Penrose’s limit theorem: Proof of some special cases” (with I Lindner), forthcoming in *Mathematical Social Sciences*.
- 2004 “A Priori Voting Power: What Is It All About?” forthcoming in *Political Studies*, 2004.
- 2005 “Voting power measurement: A story of misreinvention”(with D S Felsenthal), forthcoming in *Social Choice and Welfare*.

Reviews and short pieces

- 1986: Review of *Recursive Aspects of Descriptive Set Theory* by R. Mansfield and G. Weitkamp. *Bull LMS* **18**:429–30.
- 1988: Review of *Varieties of Constructive Mathematics* by D. Bridges and F. Richman. *Bull LMS* 1988.
- 1990: [Untitled] letter in *Education Guardian* 16.10.90, on the history of smallpox inoculation.
- 1991: “Is this a question?” (elucidation of a logical query) in *Notes & Queries, The Guardian* 3 June 1991.
- 1994: Review article on *The Bounds of Logic. A Generalized Viewpoint* by G. Sher. *British Journal Philosophy of Science* **45**:1078–83.
- 1996: Review of *Abraham Robinson: The Creation of Nonstandard Analysis – A Personal and Mathematical Odyssey* by Joseph W. Dauben. *British Journal Philosophy of Science* **47**:137–140.
- 1996: Review of *Real Numbers, Generalizations of Reals, and Theories of Continua*, Philip Ehrlich (ed.). *British Journal for the Philosophy of Science* **47**:320–4.
- 2001: Review of *Simple Games, Desirability Relations, Trading, Pseudoweightings* by Taylor and Zwicker. *Social Choice and Welfare* **18**:617–618.