

## CURRICULUM VITAE

**Itzhak Gilboa**

January 2017

Born in Tel Aviv, 1963.

### Academic Degrees

B.Sc. Mathematics and Computer Science, Summa Cum Laude, Tel Aviv University, 1982.

B.A. Economics, Magna Cum Laude, Tel Aviv University, 1982.

M.A. Economics, Summa Cum Laude, Tel Aviv University, 1984 (under the supervision of David Schmeidler).

Ph.D. Economics, Tel Aviv University, 1987 (under the supervision of David Schmeidler).

### Academic Appointments

1987-1990 Assistant Professor of Decision Sciences, J. L. Kellogg Graduate School of Management, Northwestern University.

1990-1992 Associate Professor of Decision Sciences, J. L. Kellogg Graduate School of Management, Northwestern University.

1992-1997 Frederic E. Nemmers Distinguished Professor of Decision Sciences, J. L. Kellogg Graduate School of Management, Northwestern University.

1995-1997 Visiting Professor, Department of Economics, University of Pennsylvania.

1997-1999 Professor, Department of Economics, Boston University (part time)

1997-2004 Professor, Eitan Berglas School of Economics and Recanati Business School, Tel-Aviv University.

2004-present Professor, Eitan Berglas School of Economics, Tel-Aviv University.

2008-present Professor of Economics and Decision Sciences, HEC, Paris.

### Editorial Boards

Econometrica (2001-2007);  
Games and Economic Behavior (1991-2008);  
International Journal of Game Theory (1996-2002);  
Journal of Economic Theory (1994-2008);  
Econometrica, Co-Editor (2014-).

### Honors and Awards

Joseph Buchmann Scholarship, 1984-1986.  
Alfred P. Sloan Research Fellowship 1992-1994.  
Frederic E. Nemmers Distinguished Professor of Decision Sciences 1992-1997.  
Sidney J. Levy Teaching Award, 1992-1993.

Fellow of the Econometric Society (as of 2000).  
Fellow, Cowles Foundation for Research in Economics, Yale University (as of 2001).  
Member of the Game Theory Society Council 2005-2011.  
The Chair of Economic Theory and Decision Theory (Tel-Aviv University, as of 2008).  
AXA Chair for Decision Sciences (HEC, Paris, as of 2010).  
Fellow of the Society for the Advancement of Economic Theory (as of 2013).

## **List of Publications**

### **Theses**

MA Thesis: "Aggregation of Preferences", Tel-Aviv University, 1984.  
Ph.D. Thesis: "Non-Additive Probability Measures and Their Applications in Expected Utility Theory", Tel-Aviv University, 1987.

### **Journal Articles**

#### **Published**

Gilboa, I., "Expected Utility with Purely Subjective Non-Additive Probabilities", Journal of Mathematical Economics, 16 (1987), 65-88.  
Gilboa, I., "The Complexity of Computing Best-Response Automata in Repeated Games", Journal of Economic Theory, 45, (1988), 342-352.  
Gilboa, I., "A Combination of Expected Utility and Maxmin Decision Criteria", Journal of Mathematical Psychology, 32 (1988), 405-420.  
Gilboa, I. and D. Schmeidler, "Information Dependent Games: Can Common Sense Be Common Knowledge?", Economics Letters, 27 (1988), 215-221.  
Gilboa, I., "Additivizations of Non-Additive Measures", Mathematics of Operations Research, 14 (1989), 1-17.  
Gilboa, I., "Duality in Non-Additive Expected Utility Theory", Annals of Operations Research, 19 (1989), 405-414.  
Gilboa, I. and D. Schmeidler, "Maxmin Expected Utility with a Non-Unique Prior", Journal of Mathematical Economics, 18 (1989), 141-153.  
Gilboa, I. and E. Zemel, "Nash and Correlated Equilibria: Some Complexity Considerations", Games and Economic Behavior, 1 (1989), 80-93.  
Gilboa, I., "Expectation and Variation in Multi-Period Decisions", Econometrica, 57 (1989), 1153-1169.  
Gilboa, I. and D. Samet, "Bounded Versus Unbounded Rationality: The Tyranny of the Weak", Games and Economic Behavior, 1 (1989), 213-221.  
Beja, A. and I. Gilboa, "Values for Two-Stage Games: Another View of the Shapley Axioms", International Journal of Game Theory, 19 (1990), 17-31.  
Gilboa, I., E. Kalai, and E. Zemel, "On the Order of Eliminating Dominated Strategies", O.R. Letters, 9 (1990), 85-89.  
Gilboa, I., "A Necessary but Insufficient Condition for the Stochastic Binary Choice Problem", Journal of Mathematical Psychology, 34 (1990), 371-392.

- Gilboa, I. and A. Matsui, "Social Stability and Equilibrium", *Econometrica*, 59 (1991), 859-867.
- Gilboa, I. and E. Lehrer, "The Value of Information--An Axiomatic Approach", *Journal of Mathematical Economics*, 20 (1991), 443-459.
- Gilboa, I. and D. Monderer, "Quasi-values on Sub-spaces of Games", *International Journal of Game Theory*, 19 (1991), 353-363.
- Gilboa, I. and E. Lehrer, "Global Games", *International Journal of Game Theory*, 20 (1991), 129-147.
- Beja, A. and I. Gilboa, "Numerical Representations of Imperfectly Ordered Preferences (A Unified Geometric Exposition)", *Journal of Mathematical Psychology*, 36 (1992), 426-449.
- Gilboa, I. and D. Monderer, "A Game Theoretic Approach to the Binary Stochastic Choice Problem", *Journal of Mathematical Psychology*, 36 (1992), 555-572.
- Fischer, A., I. Gilboa, and M. Shpitalni, "A Polynomial Algorithm for Minimal Interval Representation", *Journal of Algorithms*, 13 (1992), 546-563.
- Gilboa, I. and A. Matsui, "A Model of Random Matching", *Journal of Mathematical Economics*, 21 (1992), 185-197.
- Gilboa, I. and D. Schmeidler, "Updating Ambiguous Beliefs", *Journal of Economic Theory*, 59 (1993), 33-49.
- Gilboa, I., E. Kalai, and E. Zemel, "The Complexity of Eliminating Dominated Strategies", *Mathematics of Operations Research*, 18 (1993), 553-565.
- Gilboa, I. and D. Schmeidler, "Infinite Histories and Steady Orbits in Repeated Games", *Games and Economic Behavior*, 6 (1994), 370-399.
- Ben-Porath, E., and I. Gilboa, "Linear Measures, the Gini Index and the Income-Equality Tradeoff", *Journal of Economic Theory*, 64 (1994), 443-467.
- Gilboa, I. and D. Schmeidler, "Additive Representations of Non-Additive Measures and the Choquet Integral", *Annals of Operations Research*, 51 (1994), 43-65.
- Gilboa, I. and R. Lapson, "Aggregation of Semi-Orders: Intransitive Indifference Makes a Difference", *Economic Theory*, 5 (1995), 109-126.
- Gilboa, I. and D. Schmeidler, "Canonical Representation of Set Functions", *Mathematics of Operations Research*, 20 (1995), 197-212.
- Ferreira, J.L., I. Gilboa, and M. Maschler, "Credible Equilibria in Games with Changing Utility", *Games and Economic Behavior*, 10 (1995), 284-317.
- Gilboa, I. and D. Schmeidler, "Case-Based Decision Theory", *The Quarterly Journal of Economics*, 110 (1995) 605-639.
- Gilboa, I. and D. Schmeidler, "Case-Based Optimization", *Games and Economic Behavior*, 15 (1996), 1-26.
- Gilboa, I. and D. Schmeidler, "Act Similarity in Case-Based Decision Theory", *Economic Theory*, 9 (1997), 47-61.
- Gilboa, I., "A Comment on the Absent-Minded Driver Paradox", *Games and Economic Behavior*, 20 (1997), 25-30.
- Ben-Porath, E., I. Gilboa, and D. Schmeidler, "On the Measurement of Inequality Under Uncertainty", *Journal of Economic Theory*, 75 (1997), 194-204.

- Gilboa, I. and D. Schmeidler, "Cumulative Utility Consumer Theory", *International Economic Review*, **38** (1997), 737-761.
- Chopra, S., I. Gilboa, and S. Sastri "Source Sink Flows with Capacity Installation in Batches", *Discrete Applied Mathematics* **85** (1998), 165-192. Extended abstract in *Algorithms and Extended Formulations for One and Two Facility Network Design: Lecture Notes in Computer Science 1084*, W.H. Cunningham, S.T. McCormick, M. Queyranne (eds.), Springer.
- Gilboa, I., "Counter-Counterfactuals", *Games and Economic Behavior*, **24** (1998), 175-180.
- Billot, A., A. Chateauneuf, I. Gilboa, and J.M. Tallon, "Sharing Beliefs: between Agreeing and Disagreeing", *Econometrica*, **68** (2000), 685-694.
- Gilboa, I. and D. Schmeidler, "Case-Based Knowledge and Induction", *IEEE Transactions on Systems, Man, and Cybernetics*, **30** (2000), 85-95.
- Cohen, M., I. Gilboa, J.-Y. Jaffray, and D. Schmeidler, "An Experimental Study of Updating Ambiguous Beliefs", *Risk, Decision, and Policy*, **5** (2000), 123-133.
- Gilboa, I. and D. Schmeidler, "A Cognitive Model of Individual Well-Being", *Social Choice and Welfare*, **12** (2001), 269-288.
- Gilboa, I. and A. Pazgal, "Cumulative Discrete Choice", *Marketing Letters*, **12** (2001), 119-130.
- Gilboa, I. and D. Schmeidler, "Reaction to Price Changes and Aspiration Level Adjustments", *Review of Economic Design*, **6** (2001), 215-223.
- Billot, A., A. Chateauneuf, I. Gilboa, and J.M. Tallon, "Sharing Beliefs and the Absence of Betting in the Choquet Expected Utility Model", *Statistical Papers*, **43** (2002), 127-136.
- Gilboa, I. and D. Schmeidler, "A Cognitive Foundation of Probability", *Mathematics of Operations Research*, **27** (2002), 68-81.
- Billot, A., A. Chateauneuf, I. Gilboa, and J.M. Tallon, "Bargaining Over an Uncertain Outcome: The Role of Beliefs", *Decisions in Economics and Finance*, **25** (2002), 33-45.
- Gilboa, I., D. Schmeidler, and P. Wakker, "Utility in Case-Based Decision Theory", *Journal of Economic Theory*, **105** (2002), 483-502.
- Gilboa, I. and D. Schmeidler, "Inductive Inference: An Axiomatic Approach", *Econometrica*, **71** (2003), 1-26.
- Gilboa, I. and D. Schmeidler, "Expected Utility in the Context of a Game", *Games and Economic Behavior*, **44** (2003), 184-194.
- Gilboa, I. and N. Vieille, "Majority Vote Following a Debate", *Social Choice and Welfare*, **23** (2004), 115-125.
- Gilboa, I., D. Samet, and D. Schmeidler, "Utilitarian Aggregation of Beliefs and Tastes", *Journal of Political Economy*, **112** (2004), 932-938.
- Gilboa, I. and D. Schmeidler, "Subjective Distributions", *Theory and Decision*, **56** (2004), 345-357.
- Billot, A., I. Gilboa, D. Samet, and D. Schmeidler, "Probabilities as Similarity-Weighted Frequencies", *Econometrica*, **73** (2005), 1125-1136.

- Aragones, E., I. Gilboa, A. Postlewaite, and D. Schmeidler, "Fact-Free Learning", *American Economic Review*, 95 (2005), 1355-1368.
- Gilboa, I., O. Lieberman, and D. Schmeidler, "Empirical Similarity", *Review of Economics and Statistics*, 88 (2006), 433-444.
- Gayer, G., I. Gilboa, and O. Lieberman, "Rule-Based and Case-Based Reasoning in Housing Prices", *BE Journals in Theoretical Economics*, 7 (2007).
- Billot, A., I. Gilboa, and D. Schmeidler, "Axiomatization of an Exponential Similarity Function", *Mathematical Social Sciences*, 55 (2008), 107-115.
- Gilboa, I., A. Postlewaite, and D. Schmeidler, "Probabilities in Economic Modeling", *Journal of Economic Perspectives*, 22 (2008), 173-188.
- Gilboa, I., O. Lieberman, and D. Schmeidler, "On the Definition of Objective Probabilities by Empirical Similarity", *Synthese*, 172, (2009), 79-95.
- Gilboa, I., A. Postlewaite, and D. Schmeidler, "Is It Always Rational to Satisfy Savage's Axioms?", *Economics and Philosophy*, 25, (2009), 285-296.
- Gilboa, I., F. Maccheroni, M. Marinacci, and D. Schmeidler, "Objective and Subjective Rationality in a Multiple Prior Model", *Econometrica*, 78 (2010), 755-770.
- Gilboa, I., "Questions in Decision Theory", *Annual Reviews in Economics*, 2 (2010), 1-19.
- Gilboa, I. and D. Schmeidler, "Likelihood and Simplicity: An Axiomatic Approach", *Journal of Economic Theory*, 145 (2010), 1757-1775.
- Gilboa, I., O. Lieberman, and D. Schmeidler, "A Similarity-Based Approach to Prediction", *The Journal of Econometrics*, 162 (2011), 124-131.
- Aragones, E., I. Gilboa, and A. Weiss. "Making Statements and Approval Voting", *Theory and Decision*, 71 (2011), 461-472
- Cres, H., I. Gilboa, and N. Vieille, "Aggregation of Multiple Prior Opinions", *Journal of Economic Theory*, 146 (2011) 2563-2582.
- Gilboa, I., "Why the Empty Shells Were Not Fired: A Semi-Bibliographical Note", *Episteme*, 8 (2011), 301-308.
- Gilboa, I. and L. Samuelson, "Subjectivity in Inductive Inference", *Theoretical Economics*, 7 (2012), 183-215.
- Gilboa, I., A. Postlewaite, and D. Schmeidler, "Rationality of Belief", *Synthese*, 187 (2012), 11-31.
- Argenziano, R. and I. Gilboa, "History as a Coordination Device", *Theory and Decision*, 73 (2012), 501-512.
- Di Tillio, A., I. Gilboa, and L. Samuelson, "The Predictive Role of Counterfactuals", *Theory and Decision*, 74 (2013), 167-182.
- Gilboa, I., L. Samuelson, and D. Schmeidler "Dynamics of Inductive Inference in a Unified Model", *Journal of Economic Theory*, 148 (2013), 1399-1432.
- Gayer, G. and I. Gilboa, "Analogies and Theories: The Role of Simplicity and the Emergence of Norms", *Games and Economic Behavior*, 83 (2014) 267-283.

Gilboa, I., L. Samuelson, and D. Schmeidler, "No-Betting Pareto Dominance", *Econometrica*, 82 (2014), 1405-1442.

Gilboa, I., A. Postlewaite, L. Samuelson, and D. Schmeidler, "Economic Models as Analogies", *Economic Journal*, 124 (2014), F513-F533.

Aragones, E., I. Gilboa, A. Postlewaite, and D. Schmeidler, "Rhetoric and Analogies", *Research in Economics*, 68, (2014) 1-10.

Gayer, G., I. Gilboa, L. Samuelson, and D. Schmeidler, "Pareto Efficiency with Different Beliefs", *Journal of Legal Studies*, 43 (2014), S151-S171.

Gilboa, I., "Rationality and the Bayesian Paradigm: An Expository Note", *Journal of Economic Methodology*, 22 (2015), 312-334.

#### **Accepted**

Gilboa, I., A. Postlewaite, and L. Samuelson, "Memory Utility", *Journal of Economic Theory*, forthcoming (2015).

Gilboa, I., A. Postlewaite, L. Samuelson, and D. Schmeidler, "Economics: Between Prediction and Criticism", 2016, *International Economic Review*, forthcoming.

#### **Submitted/Under Revision**

Gilboa, I. and D. Schmeidler, "*Authorization Decisions*", revised, 2012.

Cres, H., I. Gilboa, and N. Vieille, "Bureaucracy in Quest for Feasibility", 2012.

Gilboa, I., A. Postlewaite, and D. Schmeidler, "Consumer Choice as Constrained Imitation", 2015.

Argenziano, R. and I. Gilboa, "Weighted Utilitarianism, Edgeworth, and the Market", revised, 2016.

Gilboa, I., M. Rouziou, and O. Sibony, "Decision Theory Made Relevant: Between the Software and the Shrink", 2015.

Gilboa, I., S. Minardi, and L. Samuelson, "Cases and Scenarios in Decisions under Uncertainty", 2017.

## **Books**

- Gilboa, I. and D. Schmeidler, *A Theory of Case-Based Decisions*. Cambridge University Press, 2001.
- Gilboa, I., *Theory of Decision under Uncertainty*. Cambridge University Press, 2009.
- Gilboa, I. *Rational Choice*. MIT Press, 2010.
- Gilboa, I. *Making Better Decisions*. Wiley-Blackwell, 2010.
- Gilboa, I. and D. Schmeidler, *Case-Based Predictions*. World Scientific Publishers, Economic Theory Series (Eric Maskin, Ed.), 2012.
- Gilboa, I., L. Samuelson, and D. Schmeidler, *Analogies and Theories: Formal Models of Reasoning*. Oxford University Press, 2015.

## **Book Chapters and Conference Proceedings (that have not appeared in journals)**

- Gilboa, I., "Information and Meta Information", in the *Proceedings of the Second Conference on Theoretical Aspects of Reasoning About Knowledge*, M. Vardi (ed.), Morgan-Kaufmann (1988), 227-243.
- Gilboa, I., "A Note on the Consistency of Game Theory", in the *Proceedings of the Third Conference on Theoretical Aspects of Reasoning About Knowledge*, R. Parikh and M. Vardi (eds.), Morgan-Kaufmann Publishers (1990), 201-208.
- Gilboa, I., "Philosophical Applications of Kolmogorov's Complexity Measure", in *Logic and Philosophy of Science in Uppsala*, D. Prawitz and D. Westerstahl (eds.), Synthese Library, Vol. 236, Kluwer Academic Press, (1994), pp. 205-230.
- Gilboa, I., "Can Free Choice Be Known?", in *The Logic of Strategy*, C. Bicchieri, R. Jeffrey, and B. Skyrms (eds.), Oxford: Oxford University Press (1999).
- Gilboa, I. and E. Gilboa-Schechtman, "Mental Accounting and the Absentminded Driver", in *The Psychology of Economic Decisions, vol.1 Rationality and Well-being*, in I. Brocas and J. D. Carrillo (eds.), Oxford: Oxford University Press (2003), pp. 127-136.
- Gilboa, I. and M. Marinacci, "Ambiguity and the Bayesian Approach", in *Advances in Economics and Econometrics: Theory and Applications, Tenth World Congress of the Econometric Society*, Daron Acemoglu, Manuel Arellano, and Eddie Dekel (Eds.). New York: Cambridge University Press, 2013.

## **Reviews and Comments**

- Gilboa, I., Book review of *Theory of Moves* by Steven Brams. *Games and Economic Behavior*, 10 (1995), 368-372.
- Gilboa, I., "Teaching Statistics: A Letter to Colleagues", 1994.
- Gilboa, I., Book review of *Honor, Symbols, and War* by Barry O'Neill. *Games and Economic Behavior*, 46 (2004), 213-214.
- Gilboa, I., "Decision Theory", Entry in the *Encyclopedia of Political Science*. Forthcoming.
- Gilboa, I., "A world of Models": Book review of *The World in the Model: How Economists Work and Think*, by Mary S. Morgan. *Journal of Economic Methodology*, forthcoming.

**Research Reports**

Gilboa, I., "Subjective Distortions of Probabilities and Non-Additive Probabilities", 1985.

Gilboa, I. and D. Samet, "Absorbent Stable Sets", 1991.

Gilboa, I., "Rationality and Ascriptive Science", 1991.

Gilboa, I., "Hempel, Good and Bayes", 1993.

Gilboa, I., E. Gilboa-Schechtman, U. Halpern, and A. Ortony, "Affective Packages in Consumer Choices", 2000.

Gilboa, I., "Green is Simpler than Grue", 2007.

Gilboa, I., "Free Will: A Rational Illusion", 2007.

Gilboa, I., A. Postlewaite, and D. Schmeidler, "The Complexity of the Consumer Problem and Mental Accounting", 2010.

**Books Edited**

Gilboa, I. (ed.), Theoretical Aspects of Rationality And Knowledge (TARK) VII, Morgan-Kaufman, 1998.

Gilboa, I. (ed.), Uncertainty in Economic Theory, Routledge, 2004.