Gal Hochman

Contact information:

Department of Agriculture, Food, and Resource Economics
55 Dudley Road, Cook College, New Brunswick, NJ, 08901
Work phone #: (848) 932-9142
Cellular #: (510) 289-0907
Email: gal.hochman@rutgers.edu
https://sites.rutgers.edu/gal-hochman/

Research Interests:

Issues of energy, environment, technology and trade in agriculture and natural resources.

Education:

2004	Ph.D. Economics, Columbia University, New York, NY	
	Dissertation:	Essays on Trade and Competition Policy
	Advisor:	Professor Kyle Bagwell
	2003	Summer Fellowship
	2003	Dissertation Fellowship
	2000 – 2001	Fellowship
	1999 – 2000	President's Fellow
	2000	M.Phil. Economics
1998	M.A. Economics, Tel-Aviv University, Tel-Aviv, Israel	
1993	B.A. Economics, Ben-Gurion University, Beer-Sheva, Israel	
	Magna Cum Laude	

Honors and Awards:

2019	NAREA 2019 Best Student Conference Paper Award (Ze Song, PhD, Economic Department, Rutgers University)
2018	The Rutgers Travel Grant award
2004 – 2006	The Technion: Marcella S. Geltman Academic Lectureship
1998 – 2004	E. David Fischman Scholarship Fund (full tuition and general fees ~$100,000)

Academic Appointments:

2019 –	Professor, The State University of New Jersey Rutgers
2011 – 2019	Associate Professor, The State University of New Jersey Rutgers
2011 – 2012	Visiting Scholar, UC Berkeley

2009 – 2011	Assistant Researcher, UC Berkeley
2007 – 2009	Visiting Assistant Researcher, UC Berkeley
2004 – 2008	Lecturer, Technion – Israel Institute of Technology, Haifa, Israel
	(Equivalent to a tenure track Assistant Professor in the U. S.)

Teaching Experience:

Energy economics, Environmental economics, International trade, Macroeconomics, Microeconomics

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Public Professional Activities:

Referee:

AgBioForum; AGU Books; The B.E. Journal of Economic Analysis & Policy; BioEnergy Research; British Journal of Economics, Management & Trade; Canadian Economic Journal; Canadian Journal of Agriculture Economics; Energy; Nature Climate Change; Nature Energy; Contemporary Economic Policy; Economic Quarterly; Energy Economics; Energy Journal; Energy Policy; GCB Bioenergy; Interface Focus; International Journal of Game Theory; Israel Science Foundation; Journal of Economic Dynamics & Control; Journal of Environmental Economics and Management; Journal of Industrial Ecology; Journal of international Economics; National Institute of Food and Agriculture/ United States Department of Agriculture (NIFA/USDA); National Science Foundation (NSF); Nature Energy; Natural Resources Forum; Policy and Society; Review of Development Economics; Reviews in Chemical Engineering; Review of Economic and Statistics; Southern Economic Journal; South African Journal of Economics; Transportation Research.

Member of professional societies:

The American Agricultural Economic Association

The American Economic Association

The Association of Environmental Resource Economists

Public service:

* 2022-2023	Guest Editor, Renewable and Sustainable Energy Reviews, Elsevier
* 2021-current	Associate Editor, Climate & Economics, Frontiers
* 2020-current	Board Chair, C-FARE
* 2020-2021	Past President, NAREA
* 2019-2021	School of Environmental and Biological Sciences and New Jersey Agricultural Experiment Station Appointments and Promotions (A&P) Committee
* 2019-2020	President, NAREA
* 2018-2020	Executive Committee, C-FARE
* 2018-2020	Treasurer, C-FARE
* 2018-2019	President-elect, NAREA
* 2017-2020	Board member, C-FARE
* 2017-2019	Program committee, Vice-Chair, C-FARE

* 2016-2019	Board member, NAREA
* 2014-2015	Editor, Journal of Sustainability Bioenergy Systems
* 2013-2016	Chair of the C-FARE Blue Ribbon Panel, energy panel
* 2013-2014	Guest Editor, Choices
* 2012-2013	Member of the C-FARE Blue Ribbon Panel, energy panel

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Other Appointments:

2019	Short-term consultant, World Bank
2014-15	Short-term consultant, World Bank

Research Grants:

(*) denotes grants awarded after September 2011

* 2022-2024	National Institute of Food and Agriculture: Decarbonizing the Electricity Grid and its Implications for US Agriculture: Challenges and Opportunities. PI
* 2022-2023	National Institute of Food and Agriculture: An interdisciplinary approach to transforming agricultural and food systems into more resilient and sustainable circular systems: A Mentoring Workshop. PI
* 2022-2023	National Institute of Food and Agriculture: Brandt Forum 2022: Agricultural and environmental science-based policy: opportunities and challenges for US agriculture and the environment. PI
* 2020–2021	Renewable Natural Gas Coalition (RNG): From biogas to biomethane: From waste stream through technologies to corporate added value, PI
* 2020–2023	National Science Foundation (NSF): Collaborative Research: CAS: Electrochemical Approaches to Sustainable Dinitrogen Fixation, co-PI (PI: Prof. Alan Goldman)
* 2020	Rutgers University's Research Council Award: Optimizing Atlantic striped bass aquaculture through the integration of duckweed and macroalgae, PI
* 2020-2021	New Jersey Sea Grant: Optimizing Atlantic striped bass aquaculture through the integration of duckweed and macroalgae, PI
* 2017-2020	National Science Foundation (NSF): Innovations at the Nexus of Food, Energy, and Water Systems: Electrochemical Approaches to Sustainable Dinitrogen Fixation, co-PI (PI: Prof. Alan Goldman)
* 2017-2020	Open Philanthropy: Environmental and Human Impacts of Nuclear War, co-PI (PI: Prof. Alan Robock)
* 2017-2018	SunGrant Program – Northeast Region: Deployment of Bio-Energy Carbon Capture and Sequestration Technologies: Case Study of the Northeast and Mid-Atlantic, PI
* 2016-2017	Korea Development Institute (KDI): Deployment of Bioenergy: Case Study of South Korea, co-PI (PI: Prof. Chrysostomos Tabakis)
* 2016-2017	CENTC: Electrochemical N_2 Fixation, co-PI (Prof. Alan Goldman)
* 2016-2017	NIFA/USDA: The Bioeconomy: Technological and Policy Path Forward, PI

* 2015-2016	National Science Foundation (NSF): Reduction of N_2 Using Electrode-Bound Pincer-Ligated Catalysts, co-PI (PI: Prof. Alan Goldman)
* 2014-2021	Hatch fund: Impact Analyses and Decision Strategies for Agricultural Research, PI **Active**
* 2012-2018	Hatch fund: The Science and Engineering for a Biobased Industry and Economy, PI (Enhanced multistate funding for 2017/18) **Active**
* 2012-2014	John Templeton Foundation: Assessing Barriers to GM Food Crop Production and Innovation in China, India and Africa, co-PI (PI: Prof. Carl Pray)
2007	The Israeli agriculture ministry: The dairy industry, PI

Publications:

***[A]** - refereed papers; **[B]** - book chapters; **[C]** - online repository; and **[D]** – presentations and invited talks.*

***(*)** denotes publications after September 2011*

Refereed Papers

*[A55] Lawrence, Lin, Shawn Sorrels, Shakthi T. Sivaram, Eric Lam, & Gal Hochman. (2021). "Improvement of Aquaculture Profitability and Sustainability Through Integration with Duckweed." *Agriculture Research and Technology*

* [A54] Hochman, Gal & David Zilberman. (2021). "Optimal Environmental Taxation in Response to an Environmentally-unfriendly Political Challenger." *Journal of Environmental Economics and Management*, 106

* [A53] Hochman, Gal & Tabakis, Chrysostomos. (2020). "The Potential Implications of the Introduction of Bioelectricity in South Korea." *Sustainability*, 12

* [A52] Hochman, Gal & Tabakis, Chrysostomos. (2020). "Biomass to Fuel: The Case of South Korea." *Sustainability*, 12, 1-17

* [A51] William J. Schmelz, Gal Hochman, & Kenneth G. Miller. (2020). "Total cost of carbon capture and storage implemented at a regional scale: northeastern and midwestern United States." *Interface Focus.*

* [A50] Hochman, Gal; Goldman, Alan; Felder, Frank; Mayer, James; Miller, Alexander; Holland, Patrick; Goldman, Leo; Manocha, Patricia; Song, Ze; Aleti, Saketh. (2020). "The Potential Economic Feasibility of Direct Electrochemical Nitrogen Reduction as a Route to Ammonia." *ACS Sustainable Chemistry & Engineering*

* [A49] Aleti, S. & G. Hochman. (2020). "Non-Constant Elasticity of Substitution and Intermittent Renewable Energy." *Agricultural and Resource Economics Review*

* [A48] Dong, K., Hochman, G., Timilsina, G. (2020). "Do drivers of CO2 emission growth alter overtime and by the stage of economic development?" *Energy Policy*

* [A47] Dong, K., Hochman, G., Kong, X., Sun, R., & Wang, Z. (2019). "Spatial econometric analysis of China's PM10 pollution and its influential factors: Evidence from the provincial level." *Ecological Indicators*, 96, 317-328.

* [A46] Bingjie Xu, Ruoyu Zhong, **Gal Hochman, &** Kangyin Dong (2019). "The environmental consequences of fossil fuels in China: National and regional perspectives." *Sustainable Development, 1-12*

* [A45] Kangyin Dong, Gal Hochman, Yaqing Zhang, Renjin Sun, Hui Li, & Hua Liao. (2018). "CO_2 emissions, economic and population growth, and renewable energy: Empirical evidence across regions." Energy Economics, 75, 180-192. doi:10.1016/j.eneco.2018.08.017

* [A44] Gal Hochman, Hochman, E., Naveh, N., & Zilberman, D. (2018). "The synergy between aquaculture and hydroponics technologies: The case of lettuce and tilapia." *Sustainability*, 10(10), 3479.

* [A43] Kangyin Dong, Renjin Sun, **Gal Hochman**, & Hui Li (2018). "Energy intensity and energy conservation potential in China: A regional comparison perspective." *Energy*, *155, 782-795. https://doi.org/10.1016/j.energy.2018.05.053*

* [A42] **Gal Hochman** & David Zilberman. (2018). "Corn Ethanol and US Biofuel Policy 10 Years Later: A Quantitative Assessment." *American Journal of Agricultural Economics*, Vol. *100*(2): 570-584.

* [A41] David Zilberman, Ben Gordon, **Gal Hochman**, & Justus Wesseler. (2018). "Economic of sustainable development and the bioeconomy." *Applied Economic Perspectives and Policy*, Vol. *40*(1): 22–37

* [A40] Kangyin Dong, Renjin Sun, & **Gal Hochman**. (2017). "Do natural gas and renewable energy consumption lead to less CO2 emission? Empirical evidence from a panel of BRICS countries." *Energy, Vol. 141(15): 1466-1478*.

* [A39] Kangyin Dong, Renjin Sun, **Gal Hochman**, Xiangang Zeng, Hui Li, & Hangdian Jiang. (2017). "Impact of natural gas consumption on CO2 emissions: Panel data evidence from China's provinces." *Journal of Cleaner Production*, Vol. 162: 400-410.

* [A38] **Gal Hochman** & Govinda R. Timilsina. (2017). "Energy Efficiency Barriers in Commercial and Industrial Firms in Ukraine: An Empirical Analysis." *Energy Economics*, Vol. 63: 22-30.

* [A37] Mook Bangalore, **Gal Hochman**, & David Zilberman. (2016). "Policy Incentives and Adoption of Agricultural Anaerobic Digestion: A Survey of Europe and the United States." *Renewable Energy*, Vol. 97: 559-571

* [A36] Govinda Timilsina, **Gal Hochman**, & Iryna Fedets. (2016). "Understanding Energy Efficiency Barriers in Ukraine: Insights from a Survey of Commercial and Industrial Firms." *Energy*, Vol. 106: 203-211.

* [A35] Gregory D Graff, **Gal Hochman**, Chubashini Suntharlingam, & David Zilberman. (2015). "The Competing Policy Paradigms of Agricultural Biotechnology." *AgBioForum*, Vol. 18(2): 168-181.

* [A34] David Zilberman, Greg Graff, **Gal Hochman**, & Scott Kaplan. (2015). "The Political Economy of Biotechnology." *German Journal of Agriculture Economics*, Vol. 64(4): 212-223.

* [A33] **Gal Hochman**, Shisi Wang, Qing Li, Paul Gotlieb, Fuqing Xu, & Yebo Li. (2015). "Cost of organic waste technologies: A case study for New Jersey." *AIMS Energy,* Vol. 3(3): 450-462

* [A32] Deepak Rajagopal, **Gal Hochman**, Richard Plevin, & David Zilberman. (2015). "Multi-objective regulations on transportation fuels: Comparing renewable fuel mandates and emission standards." *Energy Economics,* Vol. 49: 359-369.

* [A31] **Gal Hochman** & David Zilberman. (2015). "The political economy of OPEC." *Energy Economics*, Vol. 48: 203-216

* [A30] **Gal Hochman** & David Zilberman. (2015). "Shale Oil and Biofuels: Implications for Oil Prices and the Political Instability of OPEC as a Cartel-of-Nations." *Energy Forum,* First Quarter: *27-29*.

* [A29] Orly Levitan, Jorge Dinamarca, **Gal Hochman**, & Paul G. Falkowski. (2014). Diatoms: a fossil fuel of the future. Trends in biotechnology, 32(3), 117-124

* [A28] **Gal Hochman**, Deepak Rajagopal, Govinda Timilsina, & David Zilberman. (2014). "Quantifying the causes of the global food commodity price crisis." *Biomass & Bioenergy*, Vol. 68: 106-114.

* [A27] **Gal Hochman**. (2014). "Biofuels at a crossroad." *Choices*, Vol. 29(1): 1-5.

* [A26] David Zilberman, **Gal Hochman**, Scott Kaplan, & Eunice Mi Kim. "The political economy of biofuels." *Choices*, Vol. 29(1): 1-5.

* [A25] Michael C. Trachtenberg & **Gal Hochman**. (2014). "Ethical Energy and the Clean Electron," *Villanova Environmental Law Journal*, Vol. XXV(1): 121-147.

* [A24] David Zilberman, Scott M. Kaplan, Eunice Mi Kim, **Gal Hochman**, & Gregory Graff. (2013). "Continents Divided: Understanding Differences on GM Acceptance between Europe and North America," *GM Crops and Food: Biotechnology in Agriculture and the Food Chain*, Vol. 4(3): 202-208

* [A23] **Gal Hochman**, Eithan Hochman, & David Zilberman. (2013). "The corruption of transition," *International Journal of Business and Management*, 8(23): 76-92

* [A22] Michael C. Trachtenberg & **Gal Hochman**. (2013) "Energy efficiency: the critical systems lifetime measure," *Energy Forum*, Second Quarter: 11–15.

* [A21] David Zilberman, Geoffrey Barrow, **Gal Hochman**, & Deepak Rajagopal. (2013). "On the indirect effect of biofuel," *The American Journal of Agricultural Economics*, Vol. 95(5): 1332-1337.

* [A20] **Gal Hochman**, Chrysostomos Tabakis, & David Zilberman. (2013). "The Impact of International Trade on Institutions and Infrastructure," *Journal of Comparative Economics*, Vol. 41(1): 126-140.

* [A19] **Gal Hochman**, Scott Kaplan, Deepak Rajagopal, & David Zilberman. (2012). "Biofuel and Food-Commodity Prices," *Agriculture*, Vol. 2(3): 272-281.

* [A18] David Zilberman, **Gal Hochman**, Deepak Rajagopal, Steve Sexton, & Govinda Timilsina. (2012). "The Impact of Biofuels on Food Prices: Assessment of Findings," *American Journal of Agricultural Economics,* Vol. 95: 275-281.

* [A17] **Gal Hochman**, Oded Hochman, Eithan Hochman, Amir Heiman, & Ping-Sun Leung. (2011). "Advertising Versus Sales In Demand Creation," *The B.E. Journal of Economic Analysis & Policy*, Vol. 11(1): 1-27.

* [A16] David Zilberman, **Gal Hochman**, & Deepak Rajagopal. (2011). "Indirect Land Use Change: A second-best solution to a first-class problem," *AgBioForum*, Vol. 13(4): 382-390.

* [A15] David Zilberman, **Gal Hochman**, & Deepak Rajagopal. (2011). "On the Inclusion of Indirect Land Use in Biofuel Regulations," *University of Illinois Law Review,* Vol. 2011(2): 413-434.

* [A14] **Gal Hochman**, Deepak Rajagopal & David Zilberman. (2011). "The effect of biofuels on the international oil market," *Applied Economic Perspectives and Policy*, Vol. 33(3): 402-427.

[A13] Deepak Rajagopal, **Gal Hochman**, & David Zilberman. (2010). "Indirect fuel use change (IFUC) and the lifecycle environmental impact of biofuel policies," *Energy Policy*, Vol. 39(1): 228-233.

[A12] **Gal Hochman**, Deepak Rajagopal, & David Zilberman. (2010). "Are Biofuels the Culprit: OPEC, Food, and Fuel," *The American Economic Review*, Vol. 100(2): 183-187.

[A11] **Gal Hochman**, Deepak Rajagopal & David Zilberman. (2010). "The Effect of Biofuels on Crude Oil Markets," *AgBioForum*, Vol. 13(2): 112-118.

[A10] **Gal Hochman** & Ella Segev. (2010). "Managed Trade with Imperfect Information," *The International Economic Review*, Vol. 51(1): 187-211.

[A9] Madhu Khanna, **Gal Hochman**, Deepak Rajagopal, Steven E. Sexton & David Zilberman. (2009). "Sustainability of Food, Energy and Environment with Biofuels," *CAB Reviews: Perspectives in Agriculture, Veterinary Science, Nutrition and Natural Resources*, Vol. 028(4): 1-10.

[A8] Gregory D. Graff, **Gal Hochman**, & David Zilberman. (2009). "The Political Economy of Agricultural Biotechnology Policies," *AgBioForum*, Vol. 12(1): 34-46.

[A7] Deepak Rajagopal, Steven E. Sexton, **Gal Hochman**, & David Zilberman. (2009). "Recent Developments in Renewable Technologies: R&D Investment/Synthetic Biology," *Annual Review of Resource Economics*, Vol. 1: 621-644.

[A6] Steven E. Sexton, Deepak Rajagopal, **Gal Hochman**, David W. Roland-Holst, & David Zilberman. (2009). "Biofuel policy must evaluate environmental, food security and energy goals to maximize net benefits," *California Agriculture,* Vol. 63(4): 191-198.

[A5] Deepak Rajagopal, Steven E. Sexton, **Gal Hochman**, David W. Roland-Holst, & David Zilberman. (2009). "Model estimates food-versus-biofuel trade-off," *California Agriculture,* Vol. 63(4): 199-201.

[A4] Steven E. Sexton, David Zilberman, Deepak Rajagopal, & **Gal Hochman**. (2009). "The Role of Biotechnology in the Sustainable Biofuel Future," *AgrBioForum*, Vol. 12(1): 130-140.

[A3] **Gal Hochman**, Steven E. Sexton, & David Zilberman. (2008). "The Economics of Biofuel Policy and Biotechnology," *Journal of Agricultural & Food Industrial Organization*, Vol. 6(2): 1-22.

[A2] **Gal Hochman**. (2008). "Trade Negotiations, Domestic Policies, and the Most Favored Nation Clause," *The Canadian Journal of Economics*, Vol. 41(3): 781-795.

[A1] Eyal Brill, **Gal Hochman**, & Eithan Hochman. (1997). "Aspects of Privatization of a Water Region," *The Economic Quarterly*, Vol. 44(2): 241-262.

Published chapters in books

* [B21] **Gal Hochman**, Eithan Hochman, & David Zilberman. (2021). "Corrupting the Transition to Private Ownership." *In* Insights into Economics and Management Vol. 11. Bhatt, Kaustubha Nand (editor). BP International. https://doi.org/10.9734/bpi/ieam/v11/2222F

* [B20] Gal Hochman, Alan Goldman & Frank Felder. (2021). "Alternative ammonia production processes and the use of renewables." *In* Biomass, Biofuels, Biochemicals- Green-Economy: Systems analysis for sustainability. Murthy, Ganti (editor). Elsevier.

* [B19] Gal Hochman, Michael Traux, & David Zilberman. (2017). "US biofuel policies and Markets." In Handbook of Bioenergy Economics and Policy: Volume II. M. Khanna & D. Zilberman (eds.). Elsevier.

* [B18] Carl E. Pray, Jikun Huang, Jun Yang, Ruifa Hu, Latha Nagarajan, Bharat Ramaswami, Anwar Naseem, Gal Hochman, & Sanjib Bhuyan. (2015). "The politics and economics of GM food production in China, India and Kenya." In Analysis: Africa's future … can biosciences contribute? P. Mitton and D. Bennett (eds.). Lavenham Press

* [B17] Shisi Wang, Qing Li, Paul Gotlieb, Gal Hochman, Fuqing Xu, & Yebo Li. (2015). "A sustainable waste to energy path: The benefits from organic waste and manure in New Jersey." Proceedings of Dairy Environmental Systems and Climate Adaptation Conference and Tours, Cornell University.

* [B16] Gregory D. Graff, Gal Hochman, & David Zilberman. (2015). "The Political Economy of Regulation of Biotechnology in Agriculture." *In* The Oxford Handbook of Food, Politics and Society. R. J. Herring (eds.), Oxford Handbooks

* [B15] **Gal Hochman**, Michael C Trachtenberg, & David Zilberman. (2015). "Algae crops: co-production of algae biofuels." *In* Industrial Crops: Breeding for BioEnergy & Bioproducts. V. M. V. Cruz & D. Dierig, Springer Handbook of Plant Breeding

* [B14] Margaret Brennan, **Gal Hochman**, & Brian Schilling. (2014). "Assessment of biomass potential and the implications to the state of New Jersey." *In* Modeling, Optimization and Bioeconomy. A. Pinto & D. Zilberman, Springer Proceedings in Mathematics & Statistics

* [B13] Michael Centore, **Gal Hochman**, & David Zilberman. (2014). "Worldwide Survey of Biodegradable Feedstocks, Waste-to-Energy Technologies, and Adoption of Technologies." *In* Modeling, Optimization and Bioeconomy. A. Pinto & D. Zilberman, (eds.). Springer Proceedings in Mathematics & Statistics

* [B12] **Gal Hochman** & David Zilberman. (2014). "Algae Farming and its Bio-products." *In* Plants and Bioenergy. M. McCann, M. S. Buckeridge, N. C. Carpita, (eds.). Springer Advances in Plant Biology

* [B11] **Gal Hochman**, Deepak Rajagopal, Govinda Timilsina, & David Zilberman. (2012). "Inventories and the Global Food-Commodity Prices." *In* Perspectives on Biofuels: Potential Benefits and Possible Pitfalls. C. Taylor, R. Lomneth, & F. Wood-Black (eds.). ACS Symposium Series; American Chemical Society: Washington, DC.

* [B10] David Zilberman, Deepak Rajagopal, & **Gal Hochman**. (2012). "Economist's Perspective on Biofuels." *In* Perspectives on Biofuels: Potential Benefits and Possible Pitfalls. C. Taylor, R. Lomneth, & F. Wood-Black (eds.). ACS Symposium Series; American Chemical Society: Washington, DC.

* [B9] Greg Graff, **Gal Hochman**, & David Zilberman. (2012). "The research, development, commercialization, and adoption of drought and stress tolerant crops." *In* Crop Improvement under Adverse Conditions. N. Tuteja, N. Gill, & S. Singh (eds.). Springer Science.

* [B8] **Gal Hochman,** Deepak Rajagopal, & David Zilberman. (2012). "Biofuels and Climate Change." *In* Handbook of Climate Change and Agriculture. R. Mendelsohn & A. Dinar (eds.). Edward Elgar.

* [B7] Zilberman, David, Deepak Rajagopal, Steven E. Sexton, **Gal Hochman**, and Teresa Serra. (2011). "The Economics of Biofuels, Food, and the Environment," *In* The Economics of Alternative Energy Sources and Globalization. A. Schmitz, N. Wilson, C. Moss, & D. Zilberman (eds.). Vol. 1. Oak Park: Bentham Books.

[B6] **Gal Hochman**, Gordon Rausser, & David Zilberman. (2010). "U.S. versus E.U. Biotechnology Regulations and Comparative Advantage: Implications for Future Conflicts and Trade." *In* Cooperating in Managing Biosafety and Biodiversity: California, the United States and the European Union. J. Swinnen & D. Vogel (eds.). Edward Elgar.

[B5] **Gal Hochman**, Steven E. Sexton, & David Zilberman. (2009). "Food and Biofuel in a Global Environment." *In* Handbook of Bioenergy Economics and Policy, (series: natural resource management and policy). M. Khanna, J. Scheffran, & D. Zilberman (eds.). Springer

[B4] Deepak Rajagopal, **Gal Hochman**, & David Zilberman. (2009). "A simple framework for regulation of biofuels." *In* Handbook of Bioenergy Economics and Policy, (series: natural resource management and policy). M. Khanna, J. Scheffran, & D. Zilberman (eds.). Springer.

[B3] **Gal Hochman**, Deepak Rajagopal, & David Zilberman. (2009). "Regulation of GHG Emissions from Biofuel Blended Energy." *In* Environmental and Rural Development Impacts. M. Khanna (eds.). Proceedings of the October 15 and 16, 2008 Conference, St. Louis, Missouri. Available at http://ageconsearch.umn.edu/bitstream/53496/2/HochmanGal.pdf.

[B2] Sexton, Steven E., Deepak Rajagopal, **Gal Hochman**, David W. Roland-Holst, & David Zilberman. (2008). "Biofuel: distributional and other implications of current and the next generation technologies." *In* Risk, Infrastructure and Industry Evolution. C. Burton, R. English, J. Menard, & K. Jensen (eds.).

Proceedings of a conference June 24-25, 2008, in Berkeley, California. Available at https://ageconsearch.tind.io/record/48718/files/New%20Relationships.pdf.

[B1] Eyal Brill, **Gal Hochman**, & Eithan Hochman. (1998). "Privatization and Regulation of Multi-Source Water Usage." *In* Conflicts and Cooperation on Trans-Boundary Water Resources. R. Just & S. Netanyahu (eds.). London: Kluwer Academic Publishers.

Online repository

* [C36] Timilsina, Govinda, Gal Hochman, and Ze Song. (May 2020). *"Infrastructure, Economic Growth, and Poverty."* World Bank Working Paper #9258

* [C35] Hochman, Gal and Tabakis, Chrysostomos and Wang, Shun and Zhang, Na, Political Connections, Productivity and Firm Sales (April 29, 2020). KDI School of Pub Policy & Management Paper No. 20-08. Available at SSRN: https://ssrn.com/abstract=3588210

* [C34] Hochman, Gal; Goldman, Alan; Felder, Frank A.; Mayer, James; Miller, Alexander; Holland, Patrick L.; et al. (2019): The Potential Economic Feasibility of Direct Electrochemical Nitrogen Reduction as a Route to Ammonia. ChemRxiv. Preprint.

* [C33] Hochman, Gal and Tabakis, Chrysostomos, Biomass to Electricity: The Case of South Korea (October 2, 2019). KDI School of Pub Policy & Management Paper No. 19-13, October 2019. Available at SSRN: https://ssrn.com/abstract=3462891

* [C32] Hochman, Gal and Tabakis, Chrysostomos, Biomass to Fuel: The Case of South Korea (October 2, 2019). KDI School of Pub Policy & Management Paper No. 19-13, October 2019. Available at SSRN: https://ssrn.com/abstract=3462894

* [C31] Dong, Kangyin, **Gal Hochman**, & Govinda R. Timilsina. (2018). "Are driving forces of CO2 emissions different across countries? insights from identity and econometric analyses." Policy Research working paper no. WPS 8477, World Bank.

* [C30] Preethy Thangaraj & **Gal Hochman.** (2018). "FACTSHEET: Manipulation to Improve Sustainability of Biomass Production." Office of Chief Economist, USDA. https://www.usda.gov/oce/energy/files/Microbiome_Manipulation_Factsheet.pdf

* [C29] Preethy Thangaraj & **Gal Hochman.** (2018). "FACTSHEET: Alternative Aviation Fuel." Office of Chief Economist, USDA. https://www.usda.gov/oce/energy/files/Alternative_Aviation_Fuel.pdf

* [C28] P. Thangaraj, S. Okoye, B. Gordon, D. Zilberman, & **Gal Hochman.** (2018). "FACTSHEET: Bioenergy with Carbon Capture and Storage." Office of Chief Economist, USDA. https://www.usda.gov/oce/energy/files/BECCS_Bioenergy_with_Carbon_Capture_Factsheet.pdf

* [C27] Preethy Thangaraj, David Zilberman, & **Gal Hochman.** "FACTSHEET: Biofuels." Office of Chief Economist, USDA. https://www.usda.gov/oce/energy/files/Biofuel_Factsheet.pdf

* [C26] P. Thangaraj, B. Gordon, D. Zilberman, Dustin Wang, & **Gal Hochman**. (2018). "FACTSHEET: Bioproducts." Office of Chief Economist, USDA. https://www.usda.gov/oce/energy/files/Bioproduct_Factsheet.pdf

* [C25] Preethy Thangaraj, Robin Brumfield, & **Gal Hochman**. (2018). "FACTSHEET: Duckweed as Biomass." Office of Chief Economist, USDA. https://www.usda.gov/oce/energy/files/Duckweed_Factsheet.pdf

* [C24] **Gal Hochman** & Govinda R. Timilsina. (2017). "Fuel Efficiency Versus Fuel Substitution in the Transport Sector: An Econometric Analysis." World Bank Policy Research Working Paper 8070, May 2017

* [C23] **Gal Hochman** & David Zilberman. (2016). "The Political Economy of Embodied Technologies" to be presented at the 2016 Annual Meeting, July 31-August 2, 2016, Boston, Massachusetts. Available at http://ageconsearch.umn.edu//handle/235258

* [C22] **Gal Hochman** & David Zilberman. (2016). "Corn-Ethanol and the US Biofuel Policy 10 Years After: A Meta-Analyses" to be presented at the 2016 Annual Meeting, July 31-August 2, 2016, Boston, Massachusetts. Available at http://ageconsearch.umn.edu//handle/235467

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Conferences:

[D83] Hochman G. (2021). Invited Session titled "The Bioeconomy As a Framework for Disruptive Innovations for Sustainable Economic Growth: Part II Developing Supply Chains for Advanced Biofuels and Beyond: Challenges and Opportunities." 31st International Conference of Agricultural Economists (ICAE), 17 to 31 August 2021.

[D82] Hochman, G. (2021). "The economics of direct nitrogen reduction technologies." Northwest Knowledge Network (NKN) at the University of Idaho. https://doi.org/10.7923/S707-PC41

[D80] Gal Hochman, Hainan Zhang, Lili Xia, Alan Robock, Saketh Aleti, Dominique Y van der Mensbrugghe, & Jonas Jagermeyr. (2021). "Economic incentives modify agricultural impacts of a regional nuclear war concerning food insecurity." 2021 American Agricultural & Economics Association Annual Conference, August 1-3, 2021

[D81] Gal Hochman. (2021). "Improvement of Aquaculture Profitability and Sustainability Through Integration with Duckweed: The case of Integrated Multi-Trophic Aquaculture Systems." Northeastern Agricultural & Resource Economics Association virtual annual meeting, June 14-15, 2021

[D80] Gal Hochman, Hainan Zhang, Lili Xia, Alan Robock, Saketh Aleti, Dominique Y van der Mensbrugghe, & Jonas Jagermeyr. (2021). "Economic incentives modify agricultural impacts of a

regional nuclear war concerning food insecurity and famine." 2021 Western Economic Association 96th Annual Conference June 27 to July 1, 2021

[D79] Session: Environment - Climate Change & Low Carbon & Ecological City Indicators Carbon & Ecological City Indicators. *In* Applied Energy Symposium 2020: Low Carbon Cities & Urban Energy Systems Low Carbon Cities & Urban Energy Systems. Beijing, China, October 12, 2020

[D78] Ze Song & Gal Hochman. (2020). "Understandings of the Competition in the Electricity Market and adoption of renewable technologies: Evidence from the RGGI," USAEE webinar on August 21st 2020

[D81] Gal Hochman, Hainan Zhang, Alan Robock, Lili Xia, Saketh Aleti and Dominique van der Mensbrugghe. (2019). "Comparing Economic and Crop Models: The Case of Climatic and Agricultural Impacts of Nuclear War." GTAP 22nd annual meeting at Warsaw, Poland

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[D79] Saketh Aleti & Gal Hochman. (2019). "Efficient pollution abatement in electricity markets with intermittent renewable energy," Environmental Regulation and Innovation in Local Communities Workshop, Portsmouth NH, June 11-12, 2019

[D78] Ze Song & Gal Hochman. (2019). "Understandings of the Competition in the Electricity Market: Evidence from the RGGI," Northeastern Agricultural & Resource Economics Association annual meeting, Portsmouth NH, June 9-12, 2019

[D77] Gal Hochman, Hainan Zhang, Lili Xia, Alan Robock, Saketh Aleti, & Dominique van der Mensbrugghe. (2019). "Climatic and Agricultural Impacts of Nuclear War," Northeastern Agricultural & Resource Economics Association annual meeting, Portsmouth NH, June 9-12, 2019 https://www.xcdsystem.com/narea/program/JOV9g4C/index.cfm

* [D76] Vijay Appasamy, Saketh Aleti, **Gal Hochman** & David Zilberman. "A meta-analysis on carbon capture & storage technologies," 86th International Atlantic Economic Conference, held in New York, United States from October 11 to October 14, 2018

* [D75] **Gal Hochman**, Hainan Zhang, Lili Xia, Alan Robock, Dominique Y. van der Mensbrugghe, Jonas Jägermeyr, Saketh Aleti. "Economic Analysis of Climatic and Agricultural Impacts of Nuclear War," Northeast Agricultural and Resource Economics Association (NAREA) 2017 Annual Meeting in Philadelphia, PA June 9-12, 2018

* [D74] **Gal Hochman** & David Zilberman. "The Political Economy of Market Mediated Incentives: The Case of Embodied Technologies," 6th World Congress of Environmental and Resource Economists, Gothenburg, Sweden from June 25 to June 29, 2018

* [D73] **Gal Hochman**, Deepak Rajagopal, & David Zilberman. "A Technological Response to Environmental Policy: From Putty-clay to Putty-doh," 4th World Congress of Environmental and Resource Economists held at the Université du Québec à Montréal, June 28-July 2nd, 2010.

* [D72] **Gal Hochman**. "Economic and Environmental Benefits of Mixing Duckweed with Aquaponics." Future of Food: Strengthening Partnerships for Impact in Washington DC, 2017

* [D71] **Gal Hochman** & David Zilberman. "The Political Economy of Embodied Technologies." 2017 Annual ASSA meetings, Chicago IL

* [D70] **Gal Hochman**, Chrysostomos Tabakis, Shun Wang, & Na Zhang. "Domestic Sales Versus Exports: The Role of Firm Productivity and Political Connections in China." 2017 Annual ASSA meetings, Chicago IL

* [D69] **Gal Hochman**. “The economic benefits of duckweed in aquaponics and wastewater treatment scenarios.” Duckweeds Workshop UFPE in Recife Brazil, 2016

* [D68] **Gal Hochman**. “The Value of Economic Analysis: The Case of Aquaponics” Tripartite Conference in Maresias Brazil, 2016

* [D67] **Gal Hochman** & David Zilberman. "Corn-Ethanol and the US Biofuel Policy 10 Years After: A Meta-Analyses." NAREA meetings, 2016

* [D66] **Gal Hochman** & David Zilberman. "The Political Economy of Embodied Technologies." WEAI meetings, 2016

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* [D64] **Gal Hochman** & David Zilberman. " The Political Economy of Embodied Technologies." AAEA meetings, 2016

* [D63] **Gal Hochman** & David Zilberman. "Corn-Ethanol and the US Biofuel Policy 10 Years After: A Meta-Analyses." AAEA meetings, 2016

* [D62] **Gal Hochman**. “OPEC and the path forward.” Tufts Energy Conference. March, 2016

* [D61] **Gal Hochman** & David Zilberman. "Corn-Ethanol and the US Biofuel Policy." The Berkeley Bioeconomy Conference, 2015

* [D60] **Gal Hochman**, Greg Graff, Carl Pray, & David Zilberman. “The political economy of agricultural technologies,” ICABR 2014

* [D59] **Gal Hochman** & David Zilberman. “Climate change and the balance of trade” USAEE, NYC, 2014

* [D58] **Gal Hochman** & David Zilberman. “Climate change and the balance of trade,” NEARE, June 2014

* [D57] **Gal Hochman**, Scott Kaplan, & David Zilberman. “The causes of recent food commodity crises” AAEA annual meetings, Washington DC, August 2013.

* [D56] **Gal Hochman**, Ella Segev, Geoffrey Barrow, & David Zilberman. “The impact of biofuel on fuel prices and the environment in a multiproduct, noncompetitive set-up,” USAEE annual meetings, Anchorage Alaska, July 2013.

* [D55] **Gal Hochman** & David Zilberman. “Fuel prices across countries: dissecting the political and economic factors,” EAERE annual meeting, Toulouse France, 2013

* [D54] **Gal Hochman**, Latha Nagarajan, & Carl Pray. “The Political Economy of Adoption of GM Rice Technology in India,” ICABR conference, Ravello Italy, June 18 to 21, 2013.

* [D53] Helene Olivier, **Gal Hochman**, & David Zilberman. “Climate change: who will take the heat,” The AERE annual meetings, Banff, 2013.

* [D52] Michael T Trachtenberg & **Gal Hochman.** “The Transition to Clean Energy,” Villanova PA, 2013.

* [D51] Geoffrey Barrow, **Gal Hochman**, David Zilbrman. "The Indirect by Product effect of biofuels," ICABR-EAAE conference, Ravello Italy, June 24 to 27, 2012

* [D50] Deepak Rajagopal, **Gal Hochman**, & David Zilberman. “Multicriteria Comparison of Fuel Policies: Renewable Fuel Mandate, Clean Fuel Standards, and Fuel Carbon Tax,” ICABR-EAAE conference, Ravello Italy, June 24 to 27, 2012

* [D49] Geoffrey Barrow, **Gal Hochman**, & David Zilbrman. "The Indirect by Product effect of biofuels," European Association of Environmental and Resource Economists, 19th Annual Conference, 27 - 30 June 2012, Prague

* [D48] Deepak Rajagopal, **Gal Hochman**, & David Zilberman. "Multicriteria Comparison of Fuel Policies: Renewable Fuel Mandate, Clean Fuel Standards, and Fuel Carbon Tax," European Association of Environmental and Resource Economists, 19th Annual Conference, 27 - 30 June 2012, Prague

* [D47] **Gal Hochman**, Gregory Graff, & David ZIlberman. "The Political Economy of Contentious Technologies," AAEA 2012

* [D46] **Gal Hochman**, Margaret Brennan, & Brian Schilling. "Assessment of biomass potential and the implications to the state of New Jersey," The International Biomass Conference, April 16 to 19, 2012

* [D45] Geoffrey Barrow, **Gal Hochman**, & David Zilberman. "The multi-product petroleum refining process and biofuels," The International Biomass Conference, April 16 to 19, 2012.

* [D44] **Gal Hochman** & David Zilberman. "OPEC and cheap fuel policies," The 70th Annual MPSA Political Science Conference, Chicago, April 12-15, 2012.

* [D43] **Gal Hochman**, Geoffrey Barrow, & David Zilberman. "The economics of the Bio-refineries," the Fifth Berkeley Bioeconomy Conference, March 26, 27, and 28, 2012

* [D42] **Gal Hochman** & David Zilberman. "The economics of fuel," the Fifth Berkeley Bioeconomy Conference, March 26, 27, and 28, 2012

* [D41] **Gal Hochman** & David Zilberman. "OPEC and cheap fuel policies," the 5th Conference on the Political Economy of International Organizations at Villanova University, January 26–28, 2012.

* [D40] Geoffrey Barrow, **Gal Hochman**, & David Zilberman. "The multi-product petroleum refining process and biofuels," TRB 2012 Annual Meeting, January 2012.

* [D39] David Zilberman, Gal Hochman, Deepak Rajagopal, Steve Sexton, & Govinda Timilsina. "The Impact of Biofuels on Commodity Food Prices: Assessment of Findings," The ASSA Meetings, Chicago, January 6-8, 2012

[D38] Deepak Rajagopal, **Gal Hochman**, & David Zilberman. "Emissions and Energy Security: Comparing Clean Fuel Mandates and Fuel Carbon Standards," the 12th occasional workshop on Environmental and Resource Economics, Santa Barbara, November 12-13, 2010.

[D37] **Gal Hochman**, Deepak Rajagopal & David Zilberman. "The Effects of Alternative Energy Sources On the International Oil Market," AAEA, CAES, & WAEA Joint Annual Meeting in Denver, July 25-July 27, 2010.

[D36] **Gal Hochman**, Deepak Rajagopal, & David Zilberman. "A Technological Response to Environmental Policy: From Putty-clay to Putty-doh," 4th World Congress of Environmental and Resource Economists held at the Université du Québec à Montréal, June 28-July 2nd, 2010.

[D35] Deepak Rajagopal, **Gal Hochman**, & David Zilberman. "Emissions and Energy Security: Comparing Clean Fuel Mandates and Fuel Carbon Standards," 4th World Congress of Environmental and Resource Economists held at the Université du Québec à Montréal, June 28-July 2nd, 2010.

[D34] **Gal Hochman**, Greg Graff, & David Zilberman. "What role for socio-economic assessments? Economic theory of regulation and implications for bio-safety assessment," 4th World Congress of Environmental and Resource Economists held at the Université du Québec à Montréal, June 28-July 2nd, 2010.

[D33] **Gal Hochman**, Chris Tabakis, & David Zilberman. "The Impact of International Trade on Institutions and Infrastructure," The Canadian Economic Association Annual Conference in Quebec City, May 28-30, 2010.

[D32] **Gal Hochman**, Chris Tabakis, & David Zilberman. "The Impact of International Trade on Institutions and Infrastructure," Midwest International Trade Meeting, May 14-16, 2010.

[D31] David Zilberman, **Gal Hochman**, & Deepak Rajagopal. "Indirect Land Use: One consideration too many in biofuel regulation," Biofuels Law and Regulation Conference, Urbana Champaign, April 9, 2010. ***Invited***

[D30] **Gal Hochman**, Deepak Rajagopal & David Zilberman. "OPEC, biofuel, and food prices," The ACS 239th National Meeting in San Francisco, March 2010.

[D29] **Gal Hochman**, Deepak Rajagopal & David Zilberman. "Are Biofuels the Culprit: OPEC, Food, and Fuel," The American Economic Association Meetings in Atlanta, January 2010.

[D28] **Gal Hochman**, Deepak Rajagopal, Steven E. Sexton, & David Zilberman. "The Economics of Biofuel, Food, and the Environment," The Economics of Alternative Energy Sources and Globalization: The Road Ahead November 15-17, 2009. ***Invited***

[D27] **Gal Hochman** & David Zilberman. "Food, Energy and the Environment: Synergies and Tradeoffs," Bioeconomy: Food, Energy and the Environment, July 1, 2009. ***Invited***

[D26] Deepak rajagopal, **Gal Hochman**, & David Zilberman. "Climate change and Energy security: Renewable fuel standard versus emission intensity standard," IAEE/USAEE San-Fransisco Meeting, June 22-24, 2009.

[D25] **Gal Hochman**, Chris Tabakis, & David Zilberman. "Trade and Corruption," The American Economic Association Meetings in San Francisco, January, 2009.

[D24] Zilberman, David, Deepak Rajagopal, Steven E. Sexton, **Gal Hochman**, & Teresa Serra. "The Economics of Biofuels, Food, and the Environment," keynote presentation at the Latin American Environmental Economics (ALEAR) conference, San Jose, Costa Rica, March 20, 2009. ***Invited***

[D23] Zilberman, David, Rajagopal, Deepak, Steven E. Sexton, & **Gal Hochman**. "Biofuel Policy and Food Prices," The Workshop on Socioeconomic Impacts of Biofuel: The Road Ahead, Chicago, IL, November 15, 2008. ***Invited***

[D22] **Hochman, Gal**, Deepak Rajagopal, & David Zilberman. "Gasoline Prices, OPEC, and Biofuel," The Farm Foundation Bioeconomy Workshop, Washington, D. C., March 30, 2009. ***Invited***

[D21] Rajagopal, Deepak, **Gal Hochman**, & David Zilberman. "Incorporating Economics into Life Cycle Analysis," The Latin American Environmental Economics (ALEAR) conference, San Jose, Costa Rica, March 19, 2009.

[D20] Greg Graff, **Gal Hochman**, & David Zilberman. "How European Resistance to Biotechnology Has Hurt the Developing World," The Biofuel Situation and Policies in Developing Countries, University of California, Berkeley, May 7-8, 2009. ***Invited***

[D19] Zilberman, David, Deepak Rajagopal, Steven E. Sexton, & **Gal Hochman**. "Biofuel Policy and Food Prices," The Joint Annual Meeting of The Geological Society of America, Soil Science Society of America, American Society of Agronomy, Crop Science Society of America, and Gulf Coast Association of Geological Societies, Houston, TX, October 7, 2008.

[D18] Sexton, E. Steven, Deepak Rajagopal, David Zilberman, & **Gal Hochman**. "Food Versus Fuel: How Biofuels Make Food More Costly and Gasoline Cheaper," The Giannini Foundation Symposium: Causes and Consequences of the Food Price Crisis, Bancroft Hotel, Berkeley, CA, October 10, 2008. ***Invited***

[D17] **Hochman, Gal**, Steven E. Sexton, & David Zilberman. "The Economics of Trade, Biofuel, and the Environment," The International Agricultural Trade Research Consortium Annual General Meeting, Scottsdale, Arizona, December 7, 2008.

[D16] Rajagopal, Deepak, **Gal Hochman**, & David Zilberman. "Regulation of GHG Emissions from Biofuel Blended Energy," The 28th United States Association for Energy Economics/International Association of Energy Economics (IAEE/USAEE) American Conference, New Orleans, LA, December 3-5, 2008.

[D15] Rajagopal, Deepak, **Gal Hochman**, & David Zilberman. "A Simple Framework for Regulation of Biofuels," The 28th United States Association for Energy Economics/International Association of Energy Economics (IAEE/USAEE) North America Conference, New Orleans, December 3-5, 2008.

[D14] Rajagopal, Deepak, **Gal Hochman**, & David Zilberman. "Regulation of GHG Emissions from Biofuel Blended Energy," presented at the Farm Foundation Conference, St. Louis, MO, October 15-16, 2008. ***Invited***

[D13] **Gal Hochman**, Chris Tabakis & David Zilberman. "Trade and Corruption," The 7th Conference on Research on Economic Theory and Econometrics in Naxos, Greece, July 11-14, 2008.

[D12] **Gal Hochman**, Steven E. Sexton & David Zilberman. "The Economics of Biofuel, Trade and the Environment," The Canadian Economic Meetings, in Vancouver, June 5-8, 2008.

[D11] David Zilberman, **Gal Hochman**, & Steven E. Sexton. "Food Safety, Trade, and the Environment," World Bank, June 30, 2008. ***Invited***

[D10] **Gal Hochman**, Gordon Rausser, Steven E. Sexton & David Zilberman. "Agricultural Biotechnology in California and the EU," EU – California Regulatory Cooperation Project Workshop, University of California, Berkeley, February 22-23, 2008.

[D9] **Gal Hochman** & Chris Tabakis. "Constitutional Changes and Trade," ETSG in Athens, Greece, September 2007.

[D8] **Gal Hochman** & Rann Smorodinsky. "The Gradual Nature of International Trade Agreements," European Meeting of the Econometric Society in Budapest, Hungary, August 2007.

[D7] David Zilberman, Steven E. Sexton, Deepak Rajagopal, **Gal Hochman**, & David W. Roland-Holst. "The Intersection of Energy and Agriculture: Implications of Rising Energy Demand," USDA, Washington, D.C., February 27, 2007. ***Invited***

[D6] **Gal Hochman** & David Zilberman. "The Corruption of Transition," The American Economic Association Meetings in Chicago, January 2007.

[D5] **Gal Hochman**. "The Most-Favored-Nation Clause, Linkages, and Tariffs," The 21st Meeting of the European Economic Association in Vienna, Austria, August 2006.

[D4] **Gal Hochman**. "A Political Explanation to the Lerner Index," The 9th EUNIP International Conference, University of Limerick, Ireland, June 2006.

[D3] **Gal Hochman**. "The Most-Favored-Nation Clause, Linkages, and the Choice of Safeguard Regimes," The Changing Structure of World Trade and Investment and its Impact on Poverty and Income Inequality, Beer-Sheva, Israel, March 2006.

[D2] **Gal Hochman**. "Incumbents and the Diffusion of Information on Demand," Econometric Society World Congress, London, England, August 2005.

[D1] **Gal Hochman**. "Antitrust as a Mean of Diffusing Information about Demand," The 4th Global Conference on Business and Economics Proceedings, Oxford, England, June 2005.