

- Member, **The Government Committee for the Defense Budget** (the “Brodet” committee). 2006-2007
<http://www.nsc.gov.il/NSCWeb/Docs/Brodet.pdf>

Academic Positions

Tel Aviv University, Eitan Berglas School of Economics:

Chairman, January 2002 – January 2004

Acting Chairman, August 2001 – December 2001

Full Professor, since 2004

Associate Professor, 1997- 2004

Senior Lecturer, 1991 - 1997

Lecturer, 1984-1991

Stanford University

Landau Visiting Senior Fellow at SIEPR / CREEG, Fall 2004 (half sabbatical)

National Bureau of Economic Research (NBER), and Harvard University, Department of Economics, Visiting Fellow (half sabbatical), Fall 2000.

Stanford University

Visiting Professor, Department of Economics, and Visiting Senior Research Associate, Center for Economic Policy Research, 1993-94 (sabbatical)

Harvard University, Graduate School of Business Administration

Senior Research Fellow, academic year 1989/90 (sabbatical).

Stanford University, Center for Economic Policy Research

Visiting Fellow, summer of 1988.

Harvard University, Department of Economics

Visiting Scholar, Summer of 1985.

Teaching Fellow, 1980-83

Hebrew University of Jerusalem, Department of Economics

Instructor, 1975-78

Other Academic Affiliations

National Bureau of Economic Research, Cambridge, MA, USA

Research Associate, since 1991

Faculty Research Fellow, 1986, 1987.

CEPR (London, UK)

Research Fellow, since 1999

DIW – German Institute for Economic Research, Berlin
Member of the Scientific Advisory Board: 2006 - 2009

The Conference on Research in Income and Wealth (CRIW),
Member, since 2005

The World Bank
Consultant on Innovation and R&D Policy for Development, 2005 - 2006

The Sapir Forum
Director, 2005-2006; Research Program on the Economics of Higher Education
(joint with the *Samuel Neaman Institute*, Technion)

The Samuel Neaman Institute for Advanced Studies in Science and Technology,
Technion – Israel Institute of Technology
Head, Program on “Science, Technology and the Economy”, 1999 - 2006

Lucca Institute for Advanced Studies, IMT, Italy – Graduate Program on Economics,
Markets and Institutions
Member of the Scientific Board, 2005 - 2006

The Academic College of Tel Aviv-Yaffo
Member of the Appointments Committee, 2004 - 2006

CIAR – Canadian Institute of Advanced Research, Economic Growth Program
Fellow, 1998 – 2002

Foerder Institute for Economic Research, and Sackler Institute of Economic Studies,
Faculty of Social Sciences, Tel Aviv University
Director, 1991 - 93

Editorial Positions in Academic Journals

The Rand Journal of Economics
Associate Editor, 1995 - 2003

The Journal of Industrial Economics
Associate Editor, 2001 - 2005

The Journal of Technology Transfer
Board of Editors, since 2002

The Journal of Innovation and New Technology
Associate Editor, since 1989

The Review of Economics and Statistics

Associate Editor, 1999 – 2003

The International Journal of Industrial Organization

Associate Editor, 1994 - 2000

Referee Reports for The American Economic Review, Econometrica, The Rand Journal of Economics, The Review of Economics and Statistics, the National Science Foundation, the Binational Science Foundation, The Journal of International Economics, Research Policy, the Quarterly Journal of Economics, The Journal of Innovation and New Technology, Harvard University Press.

Other Professional Activities

The Israel Democracy Institute

Member of the Board of Directors – since 2011

<http://www.idi.org.il/sites/english/Pages/homepage.aspx>

RAFAEL – Advanced Defense Systems, Ltd.

Member of the Scientific Advisory Board – since 2009

<http://www.rafael.co.il/>

Tel Aviv University

Member of the Budget Committee, 2003 - 2006

Eden Springs (“Mei Eden” the largest mineral water company in Israel)

Board of Directors, 1998 - 2004

BATM – Advanced Communications (a High-Tech Company)

Board of Directors, 1998-2001

Ministry of Industry and Trade, Office of the Chief Scientist, “Magnet” Program for the Support of Generic, Pre-Competitive Technologies

Member of the Directorate, 1997- 2000

The National Council for Research and Development, and the National Council for the Development of Scientific and Technological Infrastructure in Israel

Member (a Government appointment), 1996/97

Committee for Drafting Merger Guidelines for Israel

Member, by appointment of the Minister of Trade and Industry, 1995

Honors and Awards

National Science Foundation Grant, 2005-08, SES-0527657 "Harnessing Patent Data for Social Science Research" (with Iain Cockburn, Bronwyn Hall and Woody Powell).

The Israel Science Foundation Grant 1289/05, 2005-08, "The Names Game: Tracing the Mobility of Inventors with Patent Data."

US-Israel Binational Science Foundation, Grant 2004097, 2005-08, "Innovation in the Early Automobile Industry, and the Interaction with Infrastructure Development" (with Ariel Pakes and Liran Einav).

Grant from **The Israel Science Foundation**, 1996-98, "The Impact of Spillovers on the Economy: An Empirical Assessment Using Patent Data."

Grant from the **US-Israel Binational Science Foundation**, 1995-98 (with Nathan Rosenberg) "The Steam Engine and Lasers: a Study of General Purpose Technologies."

National Science Foundation Grant, 1994-97 (with Adam Jaffe) "The Sources and Effects of Knowledge Spillovers."

National Science Foundation Grant, 1994-97 (with Adam Jaffe), "Using Patent Citation Data to Trace Knowledge Flows."

National Science Foundation Grant SES91-10516, 1991-92 (with A. Jaffe and Michael S. Fogarty) "Getting Down to Basics: Using University and Corporate Patents to Identify Basic Innovations and Trace Their Diffusion."

Awarded the **Robert Troupe Paine Prize** for 1986-1989 by the Board of Syndics of **Harvard University Press**, Sept. 1990 (see Publications below).

Co-winner of the 1990 **International Joseph A. Schumpeter Society** Biennial Prize Competition, June 1990 (see Publications below).

Named one of the **top teachers** at **Tel-Aviv University**, for the academic year 1987/88.

American Research Fellowship (\$7,000), **US Information Agency**, June 1985.

The Joseph Schumpeter Fellowship (\$6,000), **Harvard University**, June 1981.

Publications

I. Books

Patents, Citations and Innovations: A Window on the Knowledge Economy (with Adam Jaffe). Cambridge, Mass.: MIT Press, 2002. ISBN 0-262-10095-9. Includes data CD.

Economic Analysis of Product Innovation - The Case of CT Scanners. Cambridge, Mass: Harvard University Press, 1990. Co-winner of the 1990 International Joseph A. Schumpeter Society Biennial Prize Competition, and winner of the Robert Troup Paine Prize for 1986-1989 awarded by Harvard University Press.

II. Articles

“The Names Game: Harnessing Inventors Patent Data for Economic Research” (with Gil Shiff and Ran Melamed). Annals of Economics and Statistics, 93/94, January-June 2009, pp. 79-108.

“Defense R&D in the Anti-Terrorist Era”. Defence and Peace Economics, 17 (3), June 2006, pp. 177-200.

“Patent Citations and the Geography of Knowledge Spillovers: A Reassessment – Comment” (with Rebecca Henderson and Adam Jaffe). American Economic Review, 95 (1), March 2005, pp. 461- 464.

“Market Value and Patent Citations” (with Adam Jaffe and Bronwyn H. Hall). Rand Journal of Economics, Vol. 36 (1), Spring 2005, pp. 16 – 38.

“A General Purpose Technology at Work: The Corliss Steam Engine in the late 19th Century US” (with Nathan Rosenberg). The Journal of Economic History, Vol. 64, No. 1, March 2004, pp. 61-99.

“In Memoriam: Zvi Griliches (1930-1999).” (joint with Ernst R. Berndt). Journal of Economic and Social Measurement, 27 (2001), pp. 93-97.

“Innovation in Israel 1968-97: A Comparative Analysis Using Patent Data.” Research Policy, 30 (3), pp. 363-390, March 2001. (Published also in Hebrew, in the Economic Quarterly 46, November 1999, pp. 285-322).

“Knowledge Spillovers and Patent Citations: Evidence from A Survey of Inventors” (with Adam Jaffe and Michael S. Fogarty). American Economic Review, Vol. 90, Papers and Proceedings, May 2000, pp. 215-218.

“International Knowledge Flows: Evidence from Patent Citations” (with Adam Jaffe)., Economics of Innovation and New Technology, 1999, 8, pp. 105-136.

"Universities as a Source of Commercial Technology: A Detailed Analysis of University Patenting 1965-1988" (with R. Henderson and A. Jaffe). Review of Economics and Statistics, February 1998, Vol LXXX (1), pp. 119-127. (Reprinted in: Navaretti, G.B., Dasgupta, P., Maler K.G. and D. Siniscalco (eds.), Creation and Transfer of Knowledge. Berlin, Springer, 1998, pp. 87-114).

"University versus Corporate Patents: A Window on the Basicness of Invention." (with R. Henderson and A. Jaffe). Economics of Innovation and New Technology, 1997, 5 (1), pp. 19-50.

"Market Segmentation and the Sources of Rents from Innovation: Personal Computers in the late 1980's" (with Timothy Bresnahan and Scott Stern). Rand Journal of Economics, Special Issue in Honor of Richard Quandt, 1997, 28 (0), pp. S17-S44.

"Flows of Knowledge from Universities and Federal Laboratories: Modeling the Flow of Patent Citations over Time and across Institutional and Geographic Boundaries." (with Adam Jaffe). Proceedings of the US National Academy of Sciences, November 1996, Vol. 93, 99. 12671-12677.

"General Purpose Technologies - Engines of Growth?" (with Timothy Bresnahan). Journal of Econometrics, January 1995, 65(1), pp. 83-108.

"Geographic Localization of Knowledge Spillovers as Evidenced by Patent Citations" (with A. Jaffe and R. Henderson). Quarterly Journal of Economics, Vol. 108, August 1993, pp. 577-598.

"A Penny for Your Quotes: Patent Citations and the Value of Innovations". The Rand Journal of Economics, Spring 1990, 21(1), 172-187.

"The Welfare Analysis of Product Innovations, with an Application to Computed Tomography Scanners". Journal of Political Economy, April 1989, 97(2), 444-479.

"The Diffusion of Innovations: A Methodological Reappraisal" (with S. Yitzhaki). Journal of Business and Economic Statistics, January 1989, 7(1), 35-47.

The Use of Multivariate Regression Analysis in Contrast-Detail Studies of CT Scanners". Medical Physics 11 (4), July/August 1984, 456-64.

"Performance in Innovation in the Israeli Electronics Industry: A Case Study in Biomedical Electronics Instrumentation". Research Policy 5, 1976, 354-379 (with M. Teubal and N. Arnon).

III. Chapters in Books

“Can the Nelson-Arrow Paradigm Still Be the Beacon of Innovation Policy?” In Lerner, J. and S. Stern (eds.), The Rate and Direction of Inventive Activity Revisited. The University of Chicago Press, 2012, pp. 679-684.

“Remembering Ken, our Beloved Friend.” In Costa, D.L. and N.R. Lamoreaux, Understanding Long-Run Economic Growth – Geography, Institutions and the Knowledge Economy. A National Bureau of Economic Research Conference Report. The University of Chicago Press, 2011, pp. 373-74.

“The Rumbblings of a Paradigm Shift: Concluding Remarks”. In Foray, D. (ed.), The New Economics of Technology Policy. Edward Elgar, 2009, pp. 409-415.

“Innovation Policy for Development: an Overview”. In Foray, D. (ed.), The New Economics of Technology Policy. Edward Elgar, 2009, pp. 367-395.

“The Entrepreneurial Universities: The View from Israel.” In: The Future of the Research University – Meeting the Global Challenges of the 21st Century. The Ewing Marion Kauffman Foundation, 2008, pp. 84-94.

“Uncovering General Purpose Technologies using Patent Data” (with Bronwyn Hall). In Antonelli, C., D. Foray, B. H. Hall, and W. E. Steinmueller (eds.), New Frontiers in the Economics of Innovation and New Technology, Essays in Honor of Paul David. Edward Elgar, 2006.

“Crafting Defense R&D Policy in the Anti-Terrorist Era”. in A. Jaffe, J. Lerner and S. Stern (eds.), Innovation Policy and the Economy, Vol. 4, pp. 1 – 34, National Bureau of Economic Research, MIT Press, 2004.

“Is Canada Missing the ‘Technology Boat’? Evidence from Patent Data”. In Someshwar Rao and Andrew Sharpe (eds.), Productivity Issues in Canada, University of Calgary Press, 2002, pp. 245-280. Forthcoming also in Pierre Fortin and Craig Riddell (eds.), Growth, Employment and Technology: New Perspectives on Canadian Policies. McGill-Queen's University Press.

“R&D Policy in Israel: An Overview and Reassessment”. In Maryann P. Feldman and Albert N. Link (eds.), Innovation Policy in the Knowledge-Based Economy. Boston: Kluwer Academic Publishers, 2001, pp. 409-454. A slightly different version was published also as “Government Support for Commercial R&D: Lessons from the Israeli Experience.” In A. Jaffe, J. Lerner and S. Stern (eds.), Innovation Policy and the Economy, Vol. 2, National Bureau of Economic Research, MIT Press, 2002.

“Patient Welfare and Patient Compliance: An Empirical Framework for Measuring the Benefits from Pharmaceutical Innovation” (with Paul Ellickson and Scott Stern). In

Ernst R. Berndt and David M. Cutler. (eds.), Medical Care Output and Productivity. Chicago, University of Chicago Press, 2001, pp. 539-563.

"Diffusion of General Purpose Technologies" (with Elhanan Helpman). In Helpman, E. (ed.), General Purpose Technologies and Economic Growth. Cambridge: MIT Press, 1998.

"A Time to Sow and a Time to Reap: Growth Based on General Purpose Technologies" (with Elhanan Helpman). In Helpman, E. (ed.), General Purpose Technologies and Economic Growth. Cambridge: MIT Press, 1998.

"Quality-Adjusted Prices for the American Automobile Industry: 1906-1940" (with Daniel Raff). In Bresnahan, T. and R. Gordon (eds.), New Goods. Chicago, University of Chicago Press, 1997, pp. 71-101.

"Quality-adjusted Price Indices and the Measurement of Economic Growth", in Technology and Productivity, The Challenge for Economic Policy, O.E.C.D., Paris 1991, pp. 219-228.

IV. Publications in Hebrew

"R&D, High Tech and Economic Growth." The Economic Quarterly, 49, December 2002, pp. 628-237.

"Towards an Industrial and Technological Policy for Israel: Analytical Foundations and some Specific Proposals" (with M. Justman and M. Teubal, in Hebrew), The Economic Quarterly, 37, February 1987, 978-989.

V. Working Papers

"Together but Apart: ICT and Productivity Growth in Israel" (with Shaul Lach and Gil Shiff). **The Samuel Neaman Institute, STE WP 41-2008**, February 2008.

"Public Financial Support for Commercial Innovation – Europe and Central Asia Knowledge Economy Study Part I" (with Itzhak Goldberg, Adam Jaffe, Thomas Muller, Julie Sunderland and Enrique Blanco Armas). **Chief Economist's Regional Working Paper Series, Private and Financial Sector Development Department (ECSPF), The World Bank**, Vol. 1 No. 2, January 2006.

"Empirical Implications of Physician Authority in Pharmaceutical Decision making" (with Scott Stern). **NBER Working Papers**, W6851, December 1998.

"Quantity Is All Very Well But Two Fiddles Don't Make a Stradivarius - Aspects of Consumer Demand for Characteristics". **Falk Institute for Economic Research**, Discussion Paper # 7910, August 1979.

VI. Citations to Publications

Number of citations in Google Scholar as of October 2012: over **16,000**

http://scholar.google.com/scholar?start=0&q=Trajtenberg&hl=iw&as_sdt=0