

Date: August 2 2016

Avi Messica - Curriculum Vitae

Personal Details:

Academic Degree: Ph.D

Home Address: Pecan 12 St., Tel-Mond, Israel 40600

Phone Number at:

Home: 09-7968360

Additional:

Fax: 03-9635776

Mobile: 052-6208291

E-mail: avilm@colman.ac.il

School/Department Business School/Finance ,The College of Management Academic Studies

Academic Education:

B.Sc. (Cum Laude) – Tel-Aviv University, Physics (1985-1988).

M.A. and Ph.D. Details: (Institution, Adviser/s, Title)

M.Sc. (Cum Laude) - Tel-Aviv University, Prof. Abraham Katzir, Liquid and gas evanescent wave spectroscopy via tunable lasers and silver halide fibers (1988-1991).

Ph.D - The Weizmann Institute of Science, The Braun Center for Semi-conductor Submicron Research, Dr. Udi Meirav, A study of electron dynamics in a two dimensional periodic potential (1992-1996).

Further Studies:

Post Doctorate – Ben Gurion University, The Department of Industrial Engineering and Management, Prof. Abraham Mehrez, Financing and optimal funding of Risky Ventures.

Academic Experience - teaching:

1988-1991 - Physics lab. Tel-Aviv University

1997-2003 - Introduction to probability theory (undergraduate, IE), Ben-Gurion University

1997-2003 - Introduction to modern investment theory (undergraduate, IE), Ben-Gurion University

2002-2003 - Optimal funding of R&D projects (graduate, IE), Ben-Gurion University

2003-2004 - Introduction to finance (undergraduate IE), Ben-Gurion University

2004-2005 - Introduction to corporate finance (MBA), Colman MBA School of Management

2004-2005 - Hi-tech finance, business, and entrepreneurship (MBA), Colman MBA School of Management

2005-2006 - Seminar in finance (MBA), Colman MBA School of Management

2005-2008 - High Technology Marketing (B.Sc.), H.I.T.

2005-2007 - Introduction to Marketing (B.Sc.), H.I.T.

2005-2006 - Technological Entrepreneurship (B.Sc.), H.I.T.

2006-2009 - Marketing Engineering (M.Sc.), H.I.T.

2008-2009 - Seminar in High-Technology Marketing (M.Sc.), H.I.T.

2008-2009 - Securities Analysis (MBA), Colman MBA School of Management

2008-2009 - Investment management (MBA), Colman MBA School of Management

2008-2009 - Application of models in Finance (MBA), Colman MBA School of Management

2008-2009 - Selected topics in Finance Seminar (MBA), Colman MBA School of Management

2008-2009 - PE & VC management (MBA), Colman MBA School of Management

2009-2015 - Advanced Investment Theory, Colman MBA School of Management

2009-2014 - Venture capital management (MBA), Colman MBA School of Management

2009-2015 - High Technology Marketing (MBA), Colman MBA School of Management

2012-2013 - Introduction to corporate finance (MBA), Colman MBA School of Management

2012-2015 - Fundraising for Start-Up companies (MBA), Colman MBA School of Management

Academic Appointments:

Ben-Gurion University of the Negev, The Department of Industrial Engineering and Management, Prof. Abraham Mehrez, Post doctorate (Financing and optimal funding of Risky Ventures) and faculty member, (1997-2003).

H.I.T - Senior Lecturer (2005-2008).

The College of Management Academic Studies – Senior lecturer (2008 to date).

Previous Professional Experience (Non Academic):

Soreq Research Center - Project Manager (1991-1992)

Tower Semiconductors – Group Manager (1995-1998)

ShellCase – Vice President of Engineering (1998-1999)

Vision Sciences Inc. - Founder & VP Technology (1999-2000)

Memlink Ltd. - Founder & CEO (2000-2001)

Israel Seed Partners – Entrepreneur-in-Residence (2001-2002)

Clareo Photonics Inc. – Founder & CEO (2001-2003)

Do-Coop Technologies Ltd. – CEO (2003-2004)

Jerusalem Global Ventures – Executive-in-Residence (2003-2004)

Precede Ventures – Manager (2006-2007)

Advisory board member - Spec-Soft Ltd., Micro-Components Ltd., FiberZone Networks, Natural Compounds, Bionnections.

Director (BoD) - Memlink, Clareo Photonics, Do-Coop Technologies, ATI medical devices, Kubera Financial Technologies, Argorhythm Ltd.

Membership in Professional Societies:

IEEE Technology management, ISPIM.

Positions and Public Activities:

Israeli Export Institute (IEI) – Start-up branch, Chairman of steering committee (2003-2005).

H.I.T - Instructor of Lady-Tech project (2005-2007).

Academic Counseling and Professional Counseling:

The Colman College of Management Academic Studies, Business School - Counseling manager (2003-2004).

Counselor – Israel Seed Partners, Kodiak Ventures Partners (US), Terra Ventures Partners, Precede Ventures

Publications:

Refereed Journal Articles and Proceedings:

1. A. Messica, A. Katzir, U. Schiessl, M. Tacke.
Liquid and gas fiberoptic evanescent wave spectroscopy by tunable lasers.
Proc. SPIE Infrared Fiber Optics III, 1591, 1991 (192-197).
2. R. Krska, K. Taga, R. Kellner, A. Messica, A. Katzir.
A new fiber optic physico-chemical sensor for chlorinated hydrocarbons in water.
Fresenius J. Analytical Chemistry, 342, 1992 (page 202).
3. R. Krska, E. Rosenberg, K. Taga, R. Kellner, A. Messica, A. Katzir.
Polymer coated silver halide infrared fibers as sensing devices for chlorinated hydrocarbons in water.
Applied Physics Letters, 61(15), 1992 (1778-1780).
4. R. Krska, K. Taga, R. Kellner, A. Messica, A. Katzir, U. Schiessl, M. Tacke.
Optical systems for monitoring chlorinated hydrocarbons in water based on infrared fibers coupled to FTIR-spectrometers and tunable diode lasers.
OPTO 93, ESI Publications, Paris, France, 1993 (316-318).
5. D. Bunimovich, R. Kellner, R. Krska, A. Mesica, I. Paiss, U. Schiesl, M. Tacke, K. Taga, A. Katzir.
A system for monitoring & control of processes based on IR fibers and tunable diode lasers.
J. Molecular Structure, 292, 1993 (125-132).
6. A. Messica, A. Greenstein, A. Katzir, U. Schiessl, M. Tacke.

Fiber-optic, evanescent wave sensor for gas detection.

Optics Letters, 19(15), 1994 (1167-1169).

7. A. Madjar, A. Breitbard, U. Meirav, A. Messica.

A miniature microwave measurement fixture for operation up to 40 GHz and at temperatures approaching absolute zero.

Proc. 1994 IEEE MTT-S International Microwave Symposium Vol.2, 1994 (1053-1056).

8. A. Messica, U. Meirav, H. Shtrikman

Refractory metal-based low-resistance ohmic contacts for submicron GaAs heterostructure devices.

Thin Solid Films, 257, 1995 (54-57).

9. A. Messica, A. Greenstein, A. Katzir.

Theory of fiber-optic evanescent-wave spectroscopy and sensors.

Applied Optics, 35(13), 1996 (2274-2284).

10. A. Messica, U. Meirav, H. Shtrikman, V. Umansky, D. Mahalu

Bistability and dynamic depopulation in transport through a system of weakly coupled quantum wires.

Rapid Communications Physics Review B, 54(8), 1996 (R5247-R5250).

11. A. Messica, A. Soibel, U. Meirav, A. Stern, H. Shtrikman, V. Umansky, D. Mahalu

Suppression of conductance in surface superlattices by temperature and electric field.

Physical Review Letters, 78, 1997 (705-708).

12. U. Meirav, A. Messica, A. Stern, H. Shtrikman, V. Umansky, D. Mahalu.

The interplay of gate potential and $e-e$ scattering in surface superlattices.

Superlattices and Microstructures, 21(1), 1997 (137-142).

13. A. Messica.

Project scheduling and uncertainty handling in the semiconductor R&D environment

Prof. Avraham Shtub (ed.), Proc. 2nd Israel Conf. on Project Management (PMI), Tel-Aviv, Israel, 1998 (16-29).

14. A. Messica, A. Mehrez, I. David.
Optimal expenditure patterns of a double-path engineering project.
J. Optimization Theory and Applications, 105(2), 2000 (441-455).

15. A. Messica, I. David.
Optimal expenditure patterns for risky R&D projects with time-dependent returns.
R&D Management, 30(3), 2000 (247-253).

16. A. Messica, A. Mehrez.
Time-to-market, window-of-opportunity, and salvageability of a new product development.
Managerial and Decision Economics, 23, 2002 (371-378).

17. A. Messica.
Temporal comparative analysis of the US venture capital industry over 1980 to 2002.
Entrepreneurship & Economic Abstracts, 1, 2006 (14).

18. A. Messica.
Capital imports, innovation finance and new comparative advantage in small countries.
Academy of International Business Insights (AIB), 7(2), 2007 (10-11).

19. A. Messica, T. Agmon.
A note on innovation financing – Where should the money come from?
ISPIM Newsletter, March 2007 (1-4).

20. A. Messica, T. Agmon.
The prerequisites for growth through technology innovation in small and medium size countries, PODIM Proc. on Innovation and Entrepreneurship, 2007 (129-141).

21. A. Messica, T. Agmon.
Venture capital, the public sector, and the high-technology industry.
Int'l. J. of Innovation and Technology Management, 5(1), 2008 (105-122).

22. A. Messica, T. Agmon.
Empirical evidence on a supply-driven venture capital market in the USA.
Int'l. J. of Technoentrepreneurship, 1(2), 2007 (207-219).

23. A. Messica, T. Agmon.

The prerequisites of public policy for technology innovation.

Int. J. of Foresight and Innovation Policy. 4(3/4), 2008 (307-320).

24. A. Messica.

The valuation of cash-flowless high-risk ventures.

J. of Private Equity, Spring 2008 (43-48).

25. T. Agmon, A. Messica.

Venture capital funds, financial foreign direct investment, and the generation of local comparative advantage in the technology sector in Israel.

Contributions to Political Economy, Oxford University Press, 27, 2008 (57-72).

26. A. Messica.

Optimal innovation networks and policy implications.

ICEIRD 2008 Proceedings, 2008 (411-422).

27. T. Agmon, A. Messica.

Financial Foreign Direct Investment: The Role of Private Equity Investments in the Globalization of Firms from Emerging Markets. Management International Review, 49, 2009, (11-26).

28. A. Messica, T. Agmon.

Venture Capital, The Public Sector, and the High-Technology Industry.

Int. J. Entrepreneurship and Innovation Management, Vol. 10, Nos. 3/4, 2009, (227-242)

29. A. Messica.

Optimal Design of Information Flow in Innovation Networks.

Int. J. of Sustainable Strategic Management, Vol. 4, No. 1, 2009 (402-416).

30. A. Messica.

Management of Information Flow in Innovation Networks.

The IEEE International Technology Management Proceedings, 2011 (404-411).

31. A. Messica

A Simple Low Computation Intensity Model for Approximating the Distribution Function of a Sum of Non-Identical Lognormals for Financial Applications.

Under review AIP Proceedings of Application of Mathematics in Technical and Natural Sciences

32. A. Messica

Approximation of the Distribution Function of a Weighted Sum of Non-Identical Lognormal Random Variables.

Submitted for publication Journal of Optimization Theory and Applications (impact factor 1.4)

Chapters in Books:

1. Open Source – Collaborative Innovation

Chapter 12, pp. 213-234, in E-Entrepreneurship and ICT Ventures: Strategy, Organization and Technology, Ed. Christoph Stockmann, IGI Publishing, Hershey, PA, 2010.

Papers presented at academic conferences:

1. SPIE Conference on Infrared Fiber Optics III, Boston, USA

Presentation: Liquid and gas fiberoptic evanescent wave spectroscopy by tunable lasers (with A. Katzir), 1991.

2. The Israel Physical Society 1992 Annual Meeting, The Weizmann Institute of Science, Rehovot, Israel.

Presentation: Fiberoptic evanescent wave sensors (with A. Katzir, U. Schiessl, M. Tacke, R. Krska, K. Taga, R. Kellner), 1992.

3. OPTO 1993 Conference, Paris, France

Presentation: Optical systems for monitoring chlorinated hydrocarbons in water based on infrared fibers coupled to FTIR spectrometers and tunable diode lasers (with R. Krska, R. Taga, R. Kellner, A. Katzir, U. Schiessl, M. Tacke), 1993.

4. 9th Meeting on Optical Engineering in Israel, Tel-Aviv, Israel

Presentation: Lateral superlattices and quantum dots arrays fabricated by E-beam lithography technique (with D. Mahalu), 1994.

5. IEEE MTT-S International Microwave Symposium, San Diego, USA

Presentation: A miniature microwave measurement fixture for operation up to 40 GHz and at temperatures approaching absolute zero (with A. Madjar, A. Breitbard and U. Meirav), 1994.

6. The FIELDS Workshop on High Frequency Experiments on Low-Dimensional Systems, Rehovot, Israel

Presentation: Miniband transport, electric field localization, bistability, and microwave measurements in surface superlattices, 1995.

7. 23rd International Conference on the Physics of Semiconductors (ICSMM-9), Berlin, Germany

Presentation: The interplay of gate potential and e-e scattering in surface superlattices (with U. Meirav, S. Stern, H. Shtrikman, V. Umanski, D. Mahalu), 1996.

8. The 2nd Israel Conference on Project Management, Tel-Aviv, Israel

Presentation: Project scheduling and uncertainty handling in the semiconductor R&D environment, 1998.

9. 5th Israel Conference on Communications, Communications 2001, Israel

Presentation: Optical switching using MEMS, 2001.

10. The Jerusalem College of Technology Symposium on Optical Communications, Israel

Presentation: MEMS, Optical switching and next generation networks, 2001.

11. 12th Industrial Engineering and Management Conference IE&M 2002, Tel-Aviv, Israel

Presentation: Optimal funding of memoryless risky R&D projects with time-dependent returns, 2002.

12. ISPIM 2006 Conference "Networks for Innovation" 11-14 June 2006, Athens, Greece

Presentation: Venture Capital Dynamics, the Public Sector, and the High Technology Industry, 2006.

13. The R&D Management Conf., Challenges and Opportunities in R&D Management Cumbria, UK, 5-7 July 2006.

Presentation : Valuation of high-risk high-technology ventures.

14. 27th Conference on Entrepreneurship and Innovation, Maribor, Slovenia 21-22 March 2007.

Presentation: The Prerequisites for Technology Innovation in Small and Medium Size Countries

15. Trends in the Global Venture Capital. The First Israeli Entrepreneurship & Innovation Management, H.I.T, Holon, Israel, 17 April 2007.

16. Private Equity Workshop, The Colman School of Management, Rishon Le-Zion, Israel, 6 May 2007.

17. Global Conference on Business and Finance (GCBF), San Jose, Costa Rica, 23-26 May 2007.

Presentation: Growth through Technology Innovation in Small and Medium Size Countries

18. Applied Stochastic Models and Data Analysis Conference, Crete, Greece, 29 May-1 June 2007

Presentation: Valuation of risky private equity investments

19. REE Europe, Technical University of Catalonia, Barcelona, 19-21 September 2007

20. Academy of International Business - AIB 2008 Annual Meeting, Milan, Italy, 30 June-3 July 2008

Presentation: Financial Foreign Direct Investment: The Role of Private Equity Investments in the Globalization of Firms from Emerging Markets (T. Agmon, A. Messica)

21. International Workshop on Applied Probability (IWAP 2008), Compiègne, France, 7-10 July 2008.

Presentation: Valuation of High-Risk High-Gain Technology Ventures

22. International Conference for Entrepreneurship, Innovation, and Regional Development (ICEIRD 2008), Skopje and Ohrid, Macedonia, 8-11 May 2008

Presentation: Optimal Innovation Networks and Policy Implications

23. TEMPUS, Rishon Le-Zion, Israel, 16-18 November 2009

Presentation: Optimal information flow in Innovation Networks

24. IEEE International Technology Management Conference (ITMC'2011) in San Jose, CA
USA. 27-30 June 2011

Presentation: Management of Information Flow in Innovation Networks

25. 15th Annual Conference of ENBIS in Prague, 6-10 September 2015.

Presentation: A Simple Unimodal Approximation of a Sum of Independent Non Identical Lognormal Random Variables.

26. Eighth Conference of the Euro-American Consortium for Promoting the Application of
Mathematics in Technical and Natural Sciences in Albena, Bulgaria, 22-27 June 2016.

Presentation: A simple low computation intensity model for approximating the distribution
function of a sum of non-identical lognormals for financial applications

Scholarships, Prizes and Awards:

1989 - Tel-Aviv University, Israel, Special honors for achievements

1991 -Tel-Aviv University, Israel, Special honors for distinction

1989 -Tel-Aviv University, Israel, Special honors for achievements

1993 -Tel-Aviv University, Israel , Scholarship – Rachel Benin Fund

1994 - Ministry of Science and Technology, Israel, Grant – David Ben Gurion

1995 - Ministry of Science and Art, Israel, Grant – Levy Eshkol

1996 - Ministry of Science and Art, Israel, Grant – Levy Eshkol

1998 - Planning and Budgeting Committee, Council for Higher Education, Israel, Grant -
post-doctorate