

## Education

- 2011-2012 Merage Foundation Entrepreneurship in the Negev Program*
- 2008-2011 Post-Doctorate, Deutsche Telekom Labs @ BGU*  
Projects: Adaptive menus; Graded Security for mobile phones
- 2007-2009 Post-Doctorate, Industrial Engineering & Management, Ben-Gurion University*  
Title: 'Human-robot collaboration & human-computer interaction'
- 2002-2007 PhD, Computer Science & Technology, University of Cambridge, UK*  
Dissertation title: 'Le Ton Fait la Musique: Analysis of Expressions in Speech'.
- 2000-2002 Electrical & Computers Engineering, Tel Aviv University, Israel*  
Advanced graduate studies (grade: 95)
- 1994-1996, 1999 MSc, Electrical Engineering, Tel Aviv University, Israel*  
Thesis title: 'Adaptive Scheduler for Local Area Networks Based on Fuzzy Logic' (grades: thesis 90, MSc 85)
- 1989-1993 BSc, Electrical Engineering, Tel Aviv University, Israel (grade: 82)*
- 1988-1989 Technion, Israel*  
1st year, studies to BSc in Architecture

## Patents

*US Patent - AFFECT PROCESSING SYSTEMS IN SPEECH - 2007*

*PCT Application- SPEECH AFFECT ANALYZING AND TRAINING SYSTEM - 2012*

## Awards

- 2008-2011 Deutsche Telekom Labs @ BGU, Post-Doctorate Fellowship*
- 2007-2009 VATAT Scholarship, Council for Higher Education*
- 2008 ESF-JSPS fully funded conference*
- 2004 ISCA Grant*
- 2004 AAUW Educational Foundation - International Fellowship*
- 2003-2004 Cambridge Overseas Trust Fellowship*
- 2003-2004 Computer Laboratory Scholarship, University of Cambridge*
- 2002-2004 Girton College Scholarship, University of Cambridge*
- 2000-2002 Council for Higher Education Scholarship for High Technology Research*
- 1999-2002 Tel Aviv University Scholarship*
- 2000 1st prize; Lea Lavie Competition; Signal Electronics & Computing Corps (For MSc thesis)*

## Publications

- T. Sobol-Shikler, 'Inference of co-occurring classes: Multi-class and multi-label classification',* Computational Intelligence Paradigms in Advanced Pattern Classification, M. R. Ogiela and L. Jain (Eds.), Springer-Verlag, Germany, 2012.
- T. Sobol-Shikler, 'Automatic Inference of Complex Affective States',* Computer, Speech and Language, vol. 25, pp. 45-62, 2011.
- T. Sobol-Shikler, Y. Parmet and Y. Edan, 'Quantity or Quality – Predictability and Experience: A case study in Human-Robot Interaction',* Proc. of the 19th IEEE International RO-MAN 2010, Italy.
- T. Sobol-Shikler, 'Complementing Datasets for Recognition and Analysis of Affect in Speech',* Proc. of the Emotions Workshop, LREC 2010, Malta.
- T. Sobol-Shikler and P. Robinson, 'Classification of complex information: Inference of co-occurring affective states from their expressions in speech',* IEEE Trans. on Pattern Analysis & Machine Intelligence (TPAMI), vol. 32, no. 7, pp. 1284-1297, 2010.
- T. Sobol-Shikler, 'Analysis of affective expressions in speech',* Tech report, University of Cambridge, 2009.
- T. Sobol-Shikler, 'Multi-modal analysis of human computer interaction using automatic inference of aural expressions in speech',* Proc. of IEEE International SMC 2008, Singapore.
- Sobol-Shikler and Y. Edan, 'Multi-modal Interfaces and affect for human-robot collaboration',* Proc. of the ICR2008, 2008, Israel.
- T. Sobol-Shikler, 'Automatic inference of affective states from speech',* Proc. of the IEEEI 2008, Israel.
- T. Sobol-Shikler and Y. Edan, 'Multi-modal interfaces and affect for human-robot collaboration',* Proc. of the ESF-JSPS Conference on Cognitive Robotics, 2008, Japan.
- T. Sobol-Shikler and P. Robinson, 'Affect Editing in Speech',* Proc. of the 1<sup>st</sup> International ACII 2005, China.
- T. Sobol-Shikler, P. Robinson, 'Visualizing Dynamic Features of Expressions in Speech',* Proc. of Interspeech, ICSLP2004, Korea.
- T. Sobol-Shikler, R. El-Kaliouby and P. Robinson, 'Design Challenges in Multi-modal Inference Systems for Human-Computer Interaction',* Proc. of CWUAAT 2004, UK.
- T. Sobol-Shikler and P. Robinson, 'Recognizing Expressions in Speech for Human Computer Interaction',* Designing a More Inclusive World, S. Keates, J. Clarkson, P. Langdon and P. Robinson (Eds), Springer-Verlag, 2004.

## Employment

- 2012- Entrepreneur - Social Computing Technology*  
*Based on the PhD research.*
- 2012-2013 Associate Lecturer, Ben-Gurion University of the Negev*
- 2007-2009 Supervision of undergraduate and diploma students, University of Cambridge, UK*  
3 different courses  
3 research-related final year projects of undergraduate and diploma students
- 1999-2002 Teaching assistant, Tel Aviv University*  
Head teaching assistant of the fundamental undergraduate course
- 1997-1998 Senior R&D ASIC Engineer , Metalink Ltd., Israel*  
Last mile MODEMs
- 1994-1997 R&D VLSI Engineer, Digital Semiconductors, DEC, Israel*  
LANs. All stages of chip design: ideas, design, implementation, verification, documentation, and post-manufacturing testing; wrote an internal tutoring book on tools, techniques & methodologies for R&D
- 1992 IAESTA Summer internship, Technical University of Budapest, Hungary*  
programming
- 1990,1991 Summer internship, School of Applied Physics, Hebrew University of Jerusalem*  
programming
- 1987-1989 IDF - 8200*

## Academic presentations

*Quantity or Quality – Predictability and Experience: A case study in Human-Robot Interaction, IEEE RO-MAN 2010, Italy.*

*Complementing Datasets for Recognition and Analysis of Affect in Speech, Emotions, LREC 2010, Malta.*

*Automatic inference of affective states from speech, IEEEI 2008, Israel.*

*Multi-modal Interfaces and affect for human-robot collaboration, ICR 2008, Israel.*

*Multi-modal analysis of HCI using automatic inference of aural expressions in speech, IEEE SMC 2008, Singapore.*

*Automatic analysis of expressions in speech, Univ. of Tokyo, 2008, Japan*

*Multi-modal interfaces and affect for human-robot collaboration, ESF-JSPS Conference on Cognitive Robotics 2008, Japan*

*Can we hear people think, can we discern genuine laughter...can a computer do it better? Univ. of Cambridge, 2006, UK.*

*Expressions in HCI, Univ. of Peking, 2005, China.*

*Affect Editing in Speech, ACII 2005, China.*

*Visualizing Dynamic Features of Expressions in Speech, INTERSPEECH ICSLP, 2004, Korea.*

*Expression in HCI, BCS\_PAR, 2004, UK.*

*Recognizing Expressions in Speech for HCI, CWUAAT 2004, UK.*

*Design Challenges in multi-modal inference systems for HCI, CWUAAT 2004, UK.*

Seminars in Israel: IEM, Technion, 2011; CS, Technion, 2011; EE-Sys, TAU 2011; CS, IDC 2011; EE, Bar-Ilan; IEM, BGU, 2010; CS, BGU 2009; IEM, BGU , 2009; Science Education, Technion, 2008; IS, BGU, 2008; IEM, BGU, 2007;