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Harvard Medical School Brigham and Women's Hospital Department of Psychiatry Psychiatry Neuroimaging Laboratory 1249 Boylston street Boston, MA, 02115, USA		
POSITIONS		
Aug. 2010 -	Harvard Medical School, Brigham and Women's Hospital,	
present	Research fellow at the Psychiatry department, Psychiatry Neuroimaging Laborator	
	Massachusetts Institute of Technology	
Aug. 2010	Research affiliate, Computer Science and Artificial Intelligence lab, EECS	
Aug. 2010- present	The Broad Institute of MIT and Harvard, Imaging Platform Research fellow since July 2012, Research affiliate Aug 2010-June 2012	
2008 – Jul. 2010	Massachusetts Institute of Technology	
	Postdoctoral associate at the Medical Vision group of Polina Golland, Computer	
	Science and Artificial Intelligence lab, EECS	
	Harvard Medical School	
	Research affiliate, Surgical Planning Laboratory, Brigham and Women's Hospital	
EDUCATION		
2002 - 2007	Tel-Aviv University	
	Ph.D. School of Electrical Engineering, Department of Electrical Engineering – Systems	
	Thesis: Prior-based Image Segmentation with Nahum Kiryati and Nir Sochen	
1997 - 1999	The Hebrew University of Jerusalem	
	M.Sc. in Computer Science. Magna Cum Laude	
	Thesis: The Quotient Image: Class Based Recognition and Synthesis under Varying Illumination Conditions with Amnon Shashua	
1994 - 1996	The Hebrew University of Jerusalem	
	Supplementary studies for M.Sc. Degree in Computer Science	
	Studies at the Interdisciplinary Center for Neural Computation	
1990 - 1993	The Hebrew University of Jerusalem	
	B.Sc. in Physics . Magna Cum Laude	
HONORS AND AWARDS		

2009	MICCAI 2009 young scientist award for the paper: Joint Segmentation of Image Ensembles via Latent Atlases
	Yitzhak and Chaya Weinstein award for excellent paper, for the paper:
2008	Prior-based Segmentation and Shape Registration in the Presence of Perspective
	<i>Distortion</i> , published in IJCV 2007.

2007	Fulbright Post-Doctoral fellowship
	The Commercial & Industrial Club Illan Ramon Post-Doctoral scholar.
	The Yitzhak and Chaya Weinstein award for excellence in studies.
2005	The Yitzhak and Chaya Weinstein award for excellent paper, for the paper: Unlevel-
	Sets: Geometry and Prior-based Segmentation, published in ECCV 2004.
1993	The Hebrew University of Jerusalem Appeared on the Dean's list.

GRANT

	Key Personnel (with PI Carolina Wählby)
2011-2015	National Institute of Health, NIGMS, grant 1R01 GM095672-01 (20110202-20151231) Title:
	Image analysis for high-throughput C. elegans infection and metabolism assays.
	This 5-year research grant from NIH has selected as one out of four exceptional R01
	applications, available as sample applications through the NIH website:
	http://funding.niaid.nih.gov/researchfunding/grant/pages/appsamples.aspx

PUBLICATIONS

Total number of citations according to Google scholar as of July 2012 is above <u>700.</u> Journal Papers

J6. C. Wählby, L. Kamentsky , Z. H. Liu , T. Riklin-Raviv, A. L. Conery , E. J. O'Rourke, K. L. Sokolnicki , O. Visvikis , V. Ljosa , J. E. Irazoqui , P. Golland, G. Ruvkun, F. M. Ausubel and A. E. Carpenter, *An Image Analysis Toolbox for High-throughput C. Elegans Assays*. NATURE METHODS, Vol. 9 pp 627 – 763, July 2012

J5. T. Riklin Raviv, K. Van-Leemput, B.M. Menze, W.M. Wells III and P. Golland, *Segmentation of Image Ensembles via Latent Atlases*, Medical Image Analysis. Special Issue on the 12th International Conference on Medical Image Computing and Computer-Assisted Intervention (MICCAI) 2009. Medical Image Analysis (**MedIA**), Vol. 14(5) pp 654-665, October 2010.

J4. T.Riklin Raviv, N. Sochen and N. Kiryati, *On Symmetry, Perspectivity and Level-set based segmentation.* IEEE Transactions on Pattern Analysis and Machine Intelligence (**PAMI**). Vol 31(8) pp 1458-1471, August 2009.

J3. T. Riklin Raviv, N. Sochen and N. Kiryati, *Shape based Mutual Segmentation*. International Journal of computer Vision (**IJCV**). Vol 79(3) pp 231-245, September 2008.

J2. T. Riklin-Raviv, N. Kiryati and N. Sochen, *Prior-based Segmentation and Shape Registration in the Presence of Perspective Distortion.* International Journal of Computer Vision (**IJCV**). Vol 72(3) pp 309-328 May 2007.

J1. A. Shashua and T. Rikiln-Raviv, *The Quotient Image: Class Based Re-Rendering and Recognition With Varying Illuminations.* IEEE Transactions on Pattern Analysis and Machine Intelligence (**PAMI**). Vol. 23(2) pp 129-139, February 2001. **(460 citations, Google scholar July 2012)**

Peer Reviewed Conference Proceedings

C14. T. Riklin-Raviv, Y. Gao, J. Levitt, and S. Bouix: Statistical Shape Analysis for Population Studies via Level-set based Shape Morphing. ECCV workshop on Non-Rigid Shape Analysis and Deformable Image Alignment (NORDIA), accepted, 2012.

C13. E. Dittrich, T. Riklin-Raviv, G. Kasprian, P. Brugger, D. Prayer and G. Langs: *Learning a Spatiotemporal Latent Atlas for Fetal Brain Segmentation.* MICCAI workshop: Image Analysis of Human Brain Development, September 2011.

C12. T. Riklin Raviv, V. Ljosa, A.L. Conery, F.M. Ausubel, A.E. Carpenter, P. Golland and C. Wählby, *Morphology-Guided Graph Search for Untangling Objects: C.Elegans Analysis,* Proceedings of International Conference on Medical Image Computing and Computer Assisted Intervention (**MICCAI**), pp. 634-641, September 2010.

C11. C. Wählby, T. Riklin-Raviv, V. Ljosa, A.L. Conery, P. Golland, F.M. Ausubel, and A.E. Carpenter, *Resolving Clustered Worms via Probabilistic Shape Model*, IEEE International Symposium on Biomedical Imaging: From Nano to Micro (**ISBI**), pp. 552-555, April 2010.

C10. T. Riklin Raviv, K. Van-Leemput, W.M. Wells III and Polina Golland, *Joint Segmentation of Image Ensembles via Latent Atlases*, Proceedings of International Conference on Medical Image Computing and Computer Assisted Intervention (**MICCAI**), Part I, LNCS 5761, pp. 272–280, September 2009. *Received the MICCAI 09 Young Scientist Award*.

C9. T. Riklin Raviv, B.M. Menze, K. Van-Leemput, B. Stieltjes, M.A. Weber, N. Ayache, W.M. Wells III and Polina Golland, *Joint Segmentation via Patient-Specific Latent Anatomy Model*, MICCAI workshop: Probabilistic Models for Medical Imaging Analysis (PMMIA), September 2009.

C8. T. Riklin Raviv, N. Ben-Zadok and N. Kiryati *Interactive Level-set Segmentation for Image Guided Therapy*. IEEE International Symposium on Biomedical Imaging: From Nano to Micro **(ISBI)**, pp. 1079-1082, June 2009.

C7. N. Kiryati, T. Riklin Raviv, Y. Ivanchenko and S. Rochel, *Real-time Abnormal Motion Detection in Surveillance Video*. International Conference on Pattern Recognition (**ICPR**), pp. 1-4, December 2008.

C6. T. Riklin-Raviv, N. Sochen, N. Kiryati, N. Ben-Zadok, S. Gefen, L. Bertand and J. Nissanov, *Propagating Distributions for Segmentation of Brain Atlas.* IEEE International Symposium on Biomedical Imaging: From Nano to Micro **(ISBI)**, pp 1304-1307, April 2007.

C5. T. Riklin-Raviv, N. Kiryati and N. Sochen, *Segmentation with Level Sets and Symmetry*. In Proc. of IEEE Conference on Computer Vision and Pattern Recognition. (**CVPR**), pp 1015-1022, June 2006.

C4 .T. Riklin-Raviv, N. Sochen and N. Kiryati, *Mutual Segmentation with Level Sets*. In the 5th IEEE Workshop on Perceptual Organization in Computer Vision (**POCV**) in conjunction with the CVPR. 2006.

C3. T. Riklin-Raviv, N. Kiryati and N. Sochen, *Prior-based Segmentation by Projective Registration and Level Sets*. In Proc. of the Tenth IEEE International Conference on Computer Vision (**ICCV**).pp 204-211, October 2005.

C2. T. Riklin-Raviv, N. Kiryati and N. Sochen, *Unlevel-Sets: Geometry and Prior-based Segmentation*. In Proc. of the European Conference on Computer Vision (**ECCV**). pp 50-61, May 2004.

C1. T. Riklin-Raviv and A. Shashua, *The Quotient Image: Class Based Recognition and Synthesis Under Varying Illumination Conditions.* In Proc. of IEEE Conference on Computer Vision and Pattern Recognition (**CVPR**). pp 566-571, June 1999.

PATENT

N. Kiryati, T. Riklin Raviv, Y. Ivanchenko, S. Rochel, Y. Dvir and D. Harari, *Apparatus and* Methods for the Detection of Abnormal Motion in a Video Stream. European Patent EP1631073B1

ACADEMIC ACTIVITIES

2006- 2007	Coordinator of the Mathematical Visual Perception seminar at Tel-Aviv University
Journal Review	IEEE Transactions on Pattern Analysis and Machine Intelligence
	IEEE Transaction on Medical Imaging
	IEEE Transactions on Image Processing
	IEEE Transactions on Signal Processing
	IEEE Transactions on Systems, Man and Cybernetic
	Journal of Computer Vision and Image Understanding
	International Journal of Biomedical Imaging
	International Journal of Image and Graphics
	EURASIP Journal on Advances in Signal Processing
Program Committee	IEEE Conference on Computer Vision and Pattern Recognition
	IEEE International Conference on Computer Vision
	European Conference in Computer Vision
	Asian Conference in Computer Vision
Grant Proposal	Israel Science Foundation
Review	US-Israel Binational Science Foundation
	Research Funds of the Ministry of Health

TEACHING EXPERIENCE

2003-2007	Teaching Assistant, Tel-Aviv University, Faculty of Engineering
	Introduction to Systems Programming, Digital Logic Systems, Computer Architecture
2003	Instructor, Open University, Department of Computer Science
	Principals of Operating systems
1996 - 1997	Teaching Assistant, The Hebrew University of Jerusalem, Computer Science
	Computer Architecture , Algorithms

PROFESSIONAL EXPERIENCE IN INDUSTRY

2003	Researcher , Ramot at Tel-Aviv University Ltd Development of algorithms for abnormal motion detection. Cooperative research project sponsored by the Ministry of Industry, Trade and Labor, Tel-Aviv University, and Nice Systems Ltd. (Magneton)
2001-2002	Algorithm Developer , Polycom Israel Development and implementation of algorithms for play-out scheduling and concealment for media over IP.
1997-2001	Algorithm Developer, Orckit Communication (Tioga Technologies Ltd) Implementation, analysis and performance evaluation of algorithms in signal processing and coding theory for ADSL and SDSL modems.
1996-1997	Software Engineer , Telrad Networks Ltd Software development for Telephone exchanges