Eli Schwartz – CV

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Haifa, Israel

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Education	
2016-2018	M.Sc. Electrical Engineering, Tel Aviv University, Israel
	 Advisors – Dr. Raja Giryes and Prof. Alex Bronstein
	• Thesis – Deep Learning for Low Level Vision (Denoising/Demosaicing/Full ISP)
	 Selected courses – Computer Vision, Advanced Topics in Computer Vision,
	Computational Photography, Video Processing and Analysis, Optimization
2007-2011	B.Sc. Electrical Engineering, Technion - Israel institute of technology
	 Specialized in - Signal and Image Processing, Computer Engineering, Biological signals and Systems
	• Final project - Detection of manipulations ("photoshopping") in images
	 The project won the Thomas Schwartz Award for outstanding projects in image processing and computer vision
Employment	
2017-Present	Computer Vision Researcher - IBM
	 Conducting publishable research on deep-learning based few-shot object
	recognition and detection
2015-2017	Co-founder & CTO – Inka Robotics
	 A startup developing a vision-based autonomous tattooing robot
	 Led the technical team developing algorithms, software & micro-controllers
	• Turn it from idea to a working prototype (that tattooed my leg)
2013-2016	Computer Vision Algorithm Engineer – Microsoft
	Worked on the HoloLens Project (augmented reality smart glasses)
	• Part of an incubation team – fast development of PoC for innovative technologies
	Developed computer vision algorithms for 3D cameras and Gaze tracking
2011 2012	• Developed algorithms in Matlab & performance critical implementations in C++
2011-2013	ASIC Engineer – Qualcomm
	Formal verification technical lead
2000 2011	• Functional verification
2008-2011	ASIC Engineering Intern – IBM
2002 2005	ASIC formal and functional verification Military Service. Combat military service in the Armond Corns. IDE
2002-2005	Military Service - Combat military service in the Armored Corps, IDF
Tooching	
Teaching 2018	TA - Deep Learning course (CS@Technion)
2017	Supervising undergrad students final project (EE@Tel-Aviv University)
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Languages	

Languages

- Hebrew Mother tongue
- $\bullet \quad English-fluent$

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Programing languages and environments

TensorFlow/Pytorch/Theano, OpenCV, Python, Matlab, C++, C, Windows, Linux

Publications and Patents

- E. Schwartz*, L. Karlinsky*, J. Shtok, S. Harary, M. Marder, R. Feris, A. Kumar, R. Giryes and A. Bronstein, "Delta-encoder: an effective sample synthesis method for few-shot object recognition", 2018 pdf
- E. Schwartz*, L. Karlinsky*, J. Shtok*, S. Harary*, M. Marder, S. Pankanti, R. Feris, A. Kumar, R. Giryes and A. Bronstein, "RepMet: Representative-based metric learning for classification and one-shot object detection", 2018 pdf
- C. Baskin*, E. Schwartz*, E. Zheltonozhskii, N. Liss, R. Giryes, A. M. Bronstein and A. Mendelson, "UNIQ: Uniform Noise Injection for the Quantization of Neural Networks", 2018 pdf
- E. Schwartz, R. Giryes and A. M. Bronstein, "DeepISP: Learning End-to-End Image Processing Pipeline", 2018 pdf
- E. Shalev, S. Katz, and **E. Schwartz. "Imaging devices and methods for authenticating a user."** U.S. Patent Application No. 14/995,025.