TAVIHAIPERIN



CONTACT INFORMATION

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Email tavihalperin@gmail
Website tavihalperin.me

EDUCATION

2016 – present **PhD candidate** at the Hebrew University of Jerusalem (HUJI), in the field of Computer Vision.

Focusing on Egocentric (first person) videos.

Advisor: Prof. Shmuel Peleg

2012 – 2015 M.Sc from the Hebrew University of Jerusalem, cum laude.

Thesis title "EgoSampling: Fast-Forward and Stereo for Egocentric Videos".

Advisor: Prof. Shmuel Peleg

2008 – 2011 **B.Sc** in Mathematics and Computer Science from HUJI, cum laude.

Was on the dean's list: 2009, 2010.

PUBLICATIONS

Seeing through noise: Speaker separation and enhancement using visually-derived speech

Aviv Gabbay, Ariel Ephrat, Tavi Halperin, Shmuel Peleg. IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP), 2018.

An Epipolar Line from a Single Pixel

Tavi Halperin and Michael Werman. IEEE Winter Conference on Applications of Computer Vision (WACV), 2018.

Improved Speech Reconstruction from Silent Video

Ariel Ephrat*, Tavi Halperin*, Shmuel Peleg. ICCV Workshop on Computer Vision for Audio-Visual Media, 2017. [*equal contribution]

EgoSampling: Wide View Hyperlapse from Egocentric Videos

Tavi Halperin, Yair Poleg, Chetan Arora, Shmuel Peleg. IEEE Transactions on Circuits and Systems for Video Technology (TCSVT), 2017.

Epipolar Geometry Based On Line Similarity

Gil Ben-Artzi, Tavi Halperin, Michael Werman, Shmuel Peleg. International Conference on Pattern Recognition (ICPR), 2016.

EgoSampling: Fast-Forward and Stereo for Egocentric Videos

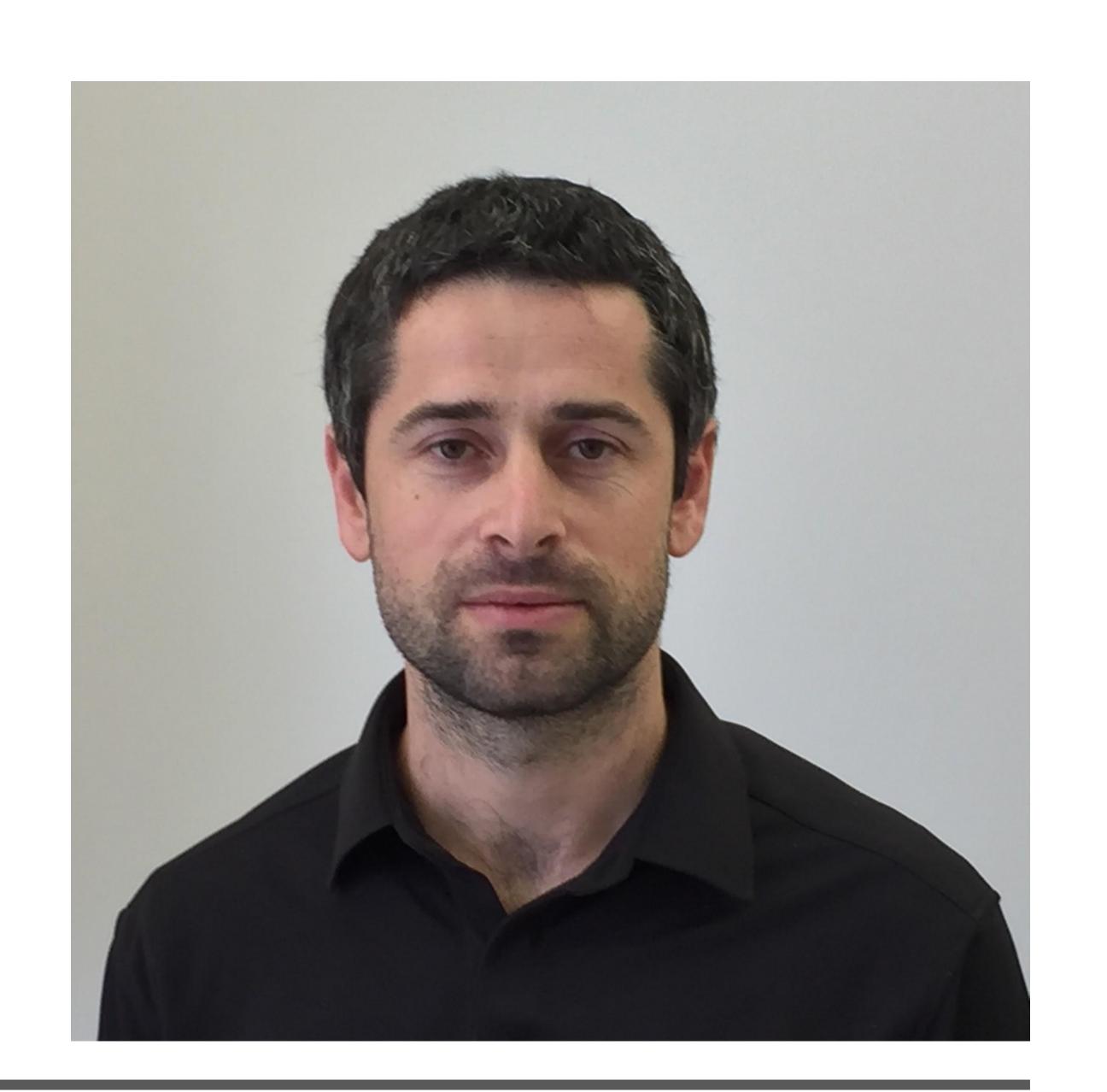
Yair Poleg, Tavi Halperin, Chetan Arora, Shmuel Peleg. IEEE Conf. on Computer Vision and Pattern Recognition (CVPR), 2015.

PATENTS

Method and system for generating adaptive fast forward of egocentric videos

Shmuel Peleg, Yair Poleg, Tavi Halperin, Chetan Arora. U.S. Patent 9672626.

TAVI HALPERIN



PROFESSIONAL EXPERIENCE

2017 – present	Research internship at Lightricks, working on tracking in video.
2016 – present	Teaching assistant, Image Processing course at the Hebrew University.
2016	Summer internship at Google Research, worked on a project involving Computer Vision and
	Deep Learning.
2013 - 2016	Computer Vision algorithms and software engineer for Rafael Advanced Defense Systems.
2012 - 2014	Teaching assistant at the Hebrew University.
	Courses: C++, Object Oriented Programing, Image Processing, Data Structures
2011 - 2012	iOS application developer, Independent contractor
2010 - 2011	Software engineer for Intel Israel, the Active Management Technology team
Languages	C/C++, Python, Matlab

EDUCATION

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INSTRUCTING FINAL ENGINEERING PROJECTS

2017 -2018	Customized Elevator Advertisements http://engproj.cs.huji.ac.il/page/2604/
2017 - 2018	Image Obfuscation http://engproj.cs.huji.ac.il/page/2631/
2016 - 2017	Deep Learning Automated Payment Station in http://www.cs.huji.ac.il/u/f/eng_projects_2017.pdf

MILITARY SERVICE

2005 - 2008 Combat soldier, Yahalom unit. Last eight months served as the head of the department for navigational studies of the unit.