Assaf Shocher

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EDUCATION

Weizmann Institute of Science – MSc, PhD (ongoing). Math&CS Dept. (2015 – Today)

- Advisor: Prof. Michal Irani.
- Thesis: Deep Internal Learning.
- Direct PhD track.
- Outstanding MSc Award.
- Teaching Assistant:
 Introduction to Computer Vision (Fall 2016-2017).
 Advanced Topics in Deep-Learning and Computer Vision (Spring 2016-2020).

Ben-Gurion University – BSc- Physics, BSc- Electrical Engineering

(2011 - 2014)

- EE Specializations: Signal Processing and Electro-Optics.
- Graduated with honors.
- Best Student Final Project Award and Scholarship.

JOB EXPERIENCE

Research Intern; Google Inc.

(2019)

Academic research, Deep Generative Models. Advised by Prof. William T. Freeman.

Lecturer; Primrose Deep Learning Academy

(2016 - Today)

Teaching full year courses of Machine Learning and Deep Learning from theory to practice.

Data Scientist; EverythingMe

(2015)

Machine Learning for the goal of a mobile device that understands the user better.

Co-Founder and ML team leader; Prophit

(2014 - 2015)

R&D of market prediction algorithms. Experience in leading, executing projects and capital raising.

Researcher; Zlotowski Center for Neuroscience (BGU)

(2014 - 2015)

Research of algorithms to describe functional brain connectivity using fMRI image processing.

Signal processing and Control Engineer; Elbit Systems

(2013 - 2014)

Student Position; Algorithms for processing signals received from Inertial Navigation Systems.

Military Service

(2004 - 2009)

Combat officer positions up to company commander, the field intelligence corps.

PUBLICATIONS

Semantic Pyramid for Image Generation

Shocher, Gandelsman, Mosseri, Yarom, Irani, Freeman, Dekel (CVPR'20 Oral Presentation)

From Discrete to Continuous Convolution Layers

Shocher, Feinstein, Haim, Irani (arXiv'20, Currently under review)

KernelGAN: Blind Super-Resolution Kernel Estimation using an Internal-GAN

Bell-Kligler, Shocher, Irani (NeurIPS'19 Oral Presentation)

InGAN: Capturing and Retargeting the "DNA" of a Natural Image;

Shocher, Bagon, Isola, Irani (ICCV'19 Oral Presentation)

Double-DIP: Unsupervised Image Decomposition via Coupled Deep-Image-Priors

Gandelsman, Shocher, Irani (CVPR'19 Oral Presentation)

Zero-Shot Super-Resolution using Deep Internal Learning

Shocher, Cohen, Irani (CVPR'18)

Evaluation of Functional Brain Connectivity Abnormalities via fMRI

Shocher, Kushinsky, Veksler, Friedman, Shallom (IEEEI'14)

HONORS & AWARDS

- Weizmann Institute of Science award for outstanding MSc.
- Ben-Gurion University; Graduated with honors.
- Ben-Gurion University; EE Dept. Best Student Final Project Award and Scholarship.