

Yuval Bahat



PERSONAL INFORMATION

Date of Birth: June 7, 1980

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EDUCATION

- 2014-2018: PhD in computer science at the Weizmann Institute of Science, Israel. Specializing in Computer Vision, Computational Photography and Machine Learning, supervised by Prof. Michal Irani.
- 2017: Summer internship with Prof. Greg Shakhnarovich at TTIC, working on novelty & error detection in deep neural networks.
- 2011-2013: M.Sc. at the Electronic Engineering faculty of the Technion - Israel Institute of Technology, Israel. Specialized in Audio-Visual signal processing, supervised by Prof. Yoav Y. Schechner.
- 2005:2009: B.Sc. in Electronic Engineering at the Technion. Graduated *Cum Laude*, Specialized in Signal processing, Control and Biological signals processing.

PUBLICATIONS

- Y. Bahat, M. Irani and G. Shakhnarovich. Natural and Adversarial Error Detection using Invariance to Image Transformations. ArXiv e-prints, 2019.
- Y. Bahat and G. Shakhnarovich. Confidence from Invariance to Image Transformations. ArXiv e-prints, 2018.
- Y. Bahat, N. Efrat and M. Irani. Non-uniform blind deblurring by reblurring. In The IEEE International Conference on Computer Vision (ICCV), 2017.
- Y. Bahat and M. Irani. Blind dehazing using internal patch recurrence. In IEEE International Conference on Computational Photography (ICCP), pages 1–9, 2016.
- Y. Bahat, Y. Y. Schechner, and M. Elad. Self-content-based audio inpainting. In Signal Processing, 111:61–72, 2015.

APPLICABLE COURSEWORK

- “Machine Learning”, the Technion (046195)
- “Reinforcement Learning & Adaptive Control”, the Technion (049004)
- “Video Signals Analysis”, the Technion (049015)

- “Speech Processing in Noisy Environment”, the Technion (049035)
- “Introduction to Natural Language Processing”, the Technion (236299)
- “Advanced Topics in Computational Photography & Optics”, Weizmann (20144202)
- “Advanced Topics in Computer Vision”, Weizmann (20154042)
- “Hands-on Course in Deep Neural Networks for Vision”, Weizmann (20164023)

PRIZES & SCHOLARSHIPS

2014-2018	Full PhD student scholarship at the Weizmann institute of science.
2011-2013	Full graduate student scholarship at the Technion EE faculty.
2011	First prize, Microsoft Natural user interface camp competition
2010	First prize, The Yehoraz Kasher annual EE. faculty Project contest.
2005-2009	Attained the dean's list of honor for all semesters.
2008	Attained the president's list of honor for the 6 th semester.

PROGRAMMING LANGUAGES & TOOLS

Fluent in Matlab, Python, TensorFlow and PyTorch. Also worked with C, C++, C# and Java.

WORK EXPERIENCE

2018-present	Postdoc position working with Prof. Tomer Michaeli at the Technion institute of Technology, Israel.
2015-present	Reviewer, for CVPR, ICCV, ECCV, ICML and Elsevier JVC
2015	Teaching assistant, “Introduction to Computer Vision”, Weizmann institute of science.
2013	Algorithms developer at Advanced Analytics department, Intel corp.
2011-2013	Teaching assistant in charge, “Visual and auditory systems”, the Technion.
2011-2013	Supervising students’ projects in the fields of Image processing and Computer vision, the Technion
2011	Software development intern for gesture recognition application, Microsoft , Haifa, Israel.
2009-2010	Verification owner, R&D department, Melanox Technologies , Tel Aviv, Israel.

2002-2009

UAV (Unmanned Air Vehicle) Certified Flight Instructor and Test Flight Pilot. Instructing UAV pilots in several countries over the world. **Israel Aircraft Industry**, Lod, Israel.