YOSSI ADI - CURRICULUM VITAE

PERSONAL INFORMATION

Email yossiadidrum@gmail.com

Website http://adiyoss.github.io

GitHub https://github.com/adiyoss

Scholar https://bit.ly/2GIuXpw

RESEARCH INTERESTS

Machine learning; Audio, Speech and Language Analysis; Music.

WORK EXPERIENCE

2019-present Research Scientist, FACEBOOK AI RESEARCH, TEL AVIV LAB. I am working on

machine learning and deep learning models for audio and speech processing.

2017 Research Intern, FACEBOOK AI RESEARCH, NEW YORK LAB. I was working on

adversarial learning for letter based automatic speech recognition models,

[paper].

2015-2016 Machine Learning Researcher, Machine Learning Technologies Group, IBM,

HAIFA RESEARCH LABS. I was working on analysis of unsupervised sentence

embeddings. [paper1], [paper2].

2013-2014 Software R&D, MEDEDUCE. I was developing data and process mining

algorithms for patient medical records.

EDUCATION

2012

2016-2019 Ph.D. in Computer Science, Department of Computer Science,

Bar-Ilan University, Ramat-Gan, Israel.

Advisor: Dr. Joseph Keshet.

Dissertation: On the Robustness of Deep Neural Models and Their Applications to

Speech Science.

2014-2015 M.Sc in Computer Science, Department of Computer Science,

Bar-Ilan University, Ramat-Gan, Israel.

Advisor: Dr. Joseph Keshet.

Thesis topic: Automatic Analysis of Speech and Language Data using Deep

Structured Learning.

2011-2013 B.Sc in Computer Science, Summa cum laude

School of Computer Science,

College of Management Academic Studies, Rishon-Le Zion, Israel.

AWARDS AND SCHOLARSHIPS

2020	Best Doctoral Dissertation Award - The Israeli Association for Artificial Intelligence (IAAI).
2017	Rector's Award for Excellence in Academic Studies - Bar-Ilan University.
2016	President Award for Excellence (Ph.D Students) - Bar-Ilan University.
2014	Zvulun Hammer Scholarship.

President Award for Excellence - College of Management Academic Studies.

PUBLICATIONS

2020	Felix Kreuk, Joseph Keshet, Yossi Adi . Self-Supervised Contrastive Learning for Unsupervised Phoneme Segmentation. <i>The 21st Annual Conference of the International Speech Communication Association (Interspeech)</i> .
2020	Adam Polyak, Lior Wolf, Yossi Adi , Yaniv Taigman. Unsupervised Cross-Domain Singing Voice Conversion. <i>The 21st Annual Conference of the International Speech Communication Association (Interspeech)</i> .
2020	Alexandre Défossez, Gabriel Synnaeve, Yossi Adi . Real Time Speech Enhancement in the Waveform Domain. <i>The 21st Annual Conference of the International Speech Communication Association (Interspeech)</i> .
2020	Felix Kreuk, Yossi Adi , Lior Wolf. Hide and Speak: Towards Deep Neural Networks for Speech Steganography. <i>The 21st Annual Conference of the International Speech Communication Association (Interspeech)</i> .
2020	Eliya Nachmani, Yossi Adi , Lior Wolf. Voice Separation with an Unknown Number of Multiple Speakers. <i>The 37th International Conference on Machine Learning (ICML)</i> .
2020	Felix Kreuk, Yaniv Sheena, Joseph Keshet, Yossi Adi . Phoneme Boundary Detection Using Learnable Segmental Features. <i>The 45th IEEE International Conference in Acoustic, Speech and Signal Processing (ICASSP)</i> .
2020	Ben Goldberger, Yossi Adi , Joseph Keshet, Guy Katz. Minimal Modifications of Deep Neural Networks using Verification. <i>The 23rd International Conference on Logic for Programming, Artificial Intelligence and Reasoning (LPAR)</i> .
2020	Yossi Adi, Yaniv Nemcovsky, Alex Schwing, Tamir Hazan. On the Generalization of Bayesian Deep Nets for Multiclass Classification. <i>arxiv</i> preprint.
2019	Jacob T. Cohen, Alma Cohen, Limor Benyamini, Yossi Adi , Joseph Keshet. Predicting Glottal Closure Insufficiency using Fundamental Frequency Contour Analysis, <i>Head & Neck</i> , <i>Journal of the Sciences and Specialities of the Head and Neck</i> .
2019	Yossi Adi, Neil Zechidour, Ronan Collobert, Nicolas Usunier, Vitaliy Liptchinsky, Gabriel Synnaeve. To Reverse The Gradient or Not: An Empirical Comparison of Adversarial and Multi-Task Learning in Speech Recognition, <i>The 44th IEEE International Conference in Acoustic, Speech and Signal Processing (ICASSP)</i> .
2018	Gabi Shalev, Yossi Adi and Joseph Keshet. Out-of-Distribution Detection using Multiple Semantic Label Representations, <i>The 32nd Annual Conference on Neural Information Processing Systems</i> (NeurIPS).
2018	Matthew Goldrick, Rhonda McClain Baum, Emily Cibelli, Yossi Adi , Erin Gustafson, Cornelia Moers and Joseph Keshet. The Influence of Lexical Selection Disruptions on Articulation, <i>Journal of Experimental Psychology: Learning, Memory, and Cognition</i> .
2018	Yossi Adi, Carsten Baum, Moustapha Cisse, Benny Pinkas and Joseph Keshet. Turning Your Weakness Into a Strength: Watermarking Deep Neural Networks by Backdooring, USENIX Security Symposium.
2018	Felix Kreuk, Yossi Adi , Moustapha Cisse, and Joseph Keshet. Fooling End-to-End Speaker Verification With Adversarial Examples, <i>The 43rd IEEE International Conference in Acoustic, Speech and Signal Processing (ICASSP)</i> .
2017	Moustapha Cisse, Yossi Adi , Natalia Neverova, and Joseph Keshet. Houdini: Fooling Deep Structured Visual and Speech Recognition Models

	with Adversarial Examples, The 31st Annual Conference on Neural Information Processing Systems (NeurIPS).
2017	Einat NAAMAN, Yossi Adi , and Joseph Keshet. Learning Similarity Function for Pronunciation Variations, <i>The 18th Annual Conference of the International Speech Communication Association (Interspeech)</i> .
2017	Yaniv Sheena, Misha Hejna, Yossi Adi , and Joseph Keshet. Automatic Measurement of Pre-aspiration, <i>The 18th Annual Conference of the International Speech Communication Association (Interspeech)</i> .
2017	Yossi Adi, Einat Kermany, Yonatan Belinkov, Ofer Lavi and Yoav Goldberg. Fine-grained Analysis of Sentence Embeddings Using Auxiliary Prediction Tasks, <i>International Conference on Learning Representations (ICLR)</i> .
2017	Yossi Adi, Joseph Keshet, Emily Cibelli, and Matt Goldrick. Sequence Segmentation Using Joint RNN and Structured Prediction Models, <i>The 42st IEEE International Conference in Acoustic, Speech and Signal Processing (ICASSP)</i> .
2017	Yossi Adi , Einat Kermany, Yonatan Belinkov, Ofer Lavi and Yoav Goldberg. Analysis of sentence embedding models using prediction tasks in natural language processing, <i>IBM Journal of Research and Development</i> .
2016	Yossi Adi, Joseph Keshet, Emily Cibelli, Erin Gustafson, Cynthia Clopper and Matt Goldrick. Automatic Measurement of Vowel Duration via Structured Prediction, <i>Journal of the Acoustical Society of America</i> .
2016	Yossi Adi , Joseph Keshet, Olga Dmitrieva and Matt Goldrick. Automatic Measurement of Voice Onset Time and Prevoicing using Recurrent Neural Networks, <i>The 17th Annual Conference of the International Speech Communication Association (Interspeech)</i> .
2016	Yossi Adi and Joseph Keshet. StructED: Risk Minimization in Structured Prediction, <i>Journal of Machine Learning Research (JMLR)</i> .
2015	Yossi Adi , Joseph Keshet and Matt Goldrick. Vowel Duration Measurement Using Deep Neural Networks, <i>The 25th IEEE International Workshop on Machine Learning for Signal Processing (MLSP)</i> .
	TEACHING
2018-2019	Lecturer, Rimon School of Jazz and Contemporary Music. Drums and Technology.
2017-2019	Teaching Assistant, Bar-Ilan University. Introduction to Machine Learning, Automatic Speech Recognition.
	SERVICE
2020	Reviewer for: NeurIPS, ICML, UAI, ICLR, ICASSP, InterSpeech, MLSP.
	Senior Program Committee for: IJCAI.
2019	Reviewer for: NeurIPS, ICML, ICASSP, ICLR, UAI, IJCAI, MLSP.
2018	Reviewer for: NeurIPS, ICML, ICASSP, MLSP, MLSLP.
	OTHER INFORMATION
Music	I'm a professional drummer and very passionate about rhythm, drums and groove. Drumming has always been my passion and very big part of my life. Here are few links to my music: YouTube, iTunes, WebSite

Interests Drums · Music · Sound · Audio