YOSSI ADI - CURRICULUM VITAE

PERSONAL INFORMATION

Email yossiadidrum@gmail.com

Website http://adiyoss.github.io

GitHub https://github.com/adiyoss

Scholar http://bit.ly/2NFFoyw

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> .
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 Zeghidour, 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 (NeurIPS)</i> .
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, <i>The 31st Annual Conference on Neural Information Processing Systems (NeurIPS)</i> .
2017	Einat NAAMAN, Yossi Adi, and Joseph Keshet. Learning Similarity Function

	for Pronunciation Variations, The 18th Annual Conference of the International Speech Communication Association (Interspeech).
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.
2015-2017	Teaching Assistant, College of Management Academic Studies. Introduction to Computer Science, Data Structures, Algorithms II and OOP.
	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

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Interests Drums · Music · Sound · Audio