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

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.
2012	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. *The 21st Annual Conference of the International Speech Communication Association (Interspeech).*

2020   Adam Polyak, Lior Wolf, **Yossi Adi**, Yaniv Taigman. Unsupervised Cross-Domain Singing Voice Conversion. *The 21st Annual Conference of the International Speech Communication Association (Interspeech).*

2020   Alexandre Défossez, Gabriel Synnaeve, **Yossi Adi**. Real Time Speech Enhancement in the Waveform Domain. *The 21st Annual Conference of the International Speech Communication Association (Interspeech).*

2020   Felix Kreuk, **Yossi Adi**, Lior Wolf. Hide and Speak: Towards Deep Neural Networks for Speech Steganography. *The 21st Annual Conference of the International Speech Communication Association (Interspeech).*

2020   Eliya Nachmani, **Yossi Adi**, Lior Wolf. Voice Separation with an Unknown Number of Multiple Speakers. *The 37th International Conference on Machine Learning (ICML).*

2020   Felix Kreuk, Yaniv Sheena, Joseph Keshet, **Yossi Adi**. Phoneme Boundary Detection Using Learnable Segmental Features. *The 45th IEEE International Conference in Acoustic, Speech and Signal Processing (ICASSP).*

2020   Ben Goldberger, **Yossi Adi**, Joseph Keshet, Guy Katz. Minimal Modifications of Deep Neural Networks using Verification. *The 23rd International Conference on Logic for Programming, Artificial Intelligence and Reasoning (LPAR).*

2019   Jacob T. Cohen, Alma Cohen, Limor Benyamini, **Yossi Adi**, Joseph Keshet. Predicting Glottal Closure Insufficiency using Fundamental Frequency Contour Analysis, *Head & Neck, Journal of the Sciences and Specialities of the Head and Neck.*

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, *The 44th IEEE International Conference in Acoustic, Speech and Signal Processing (ICASSP).*

2018   Gabi Shalev, **Yossi Adi** and Joseph Keshet. Out-of-Distribution Detection using Multiple Semantic Label Representations, *The 32nd Annual Conference on Neural Information Processing Systems (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, *Journal of Experimental Psychology: Learning, Memory, and Cognition.*

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, *The 43rd IEEE International Conference in Acoustic, Speech and Signal Processing (ICASSP).*

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, *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, *The 18th Annual Conference of the International Speech Communication Association (Interspeech).*

2017   **Yossi Adi**, Einat KERMANY, Yonatan BELINKOV, Ofer LAVI and Yoav GOLDBERG. Fine-grained Analysis of Sentence Embeddings Using Auxiliary Prediction Tasks, *International Conference on Learning Representations (ICLR).*

2017   **Yossi Adi**, Joseph KESHET, Emily CIBELLI, and Matt GOLDRICK. Sequence Segmentation Using Joint RNN and Structured Prediction Models, *The 42st IEEE International Conference in Acoustic, Speech and Signal Processing (ICASSP).*

2017   **Yossi Adi**, Einat KERMANY, Yonatan BELINKOV, Ofer LAVI and Yoav GOLDBERG. Analysis of sentence embedding models using prediction tasks in natural language processing, *IBM Journal of Research and Development.*

2016   **Yossi Adi**, Joseph KESHET, Emily CIBELLI, Erin GUSTAFSON, Cynthia CLOPPER and Matt GOLDRICK. Automatic Measurement of Vowel Duration via Structured Prediction, *Journal of the Acoustical Society of America.*

2016   **Yossi Adi**, Joseph KESHET, Olga DMITRIEVA and Matt GOLDRICK. Automatic Measurement of Voice Onset Time and Prevoicing using Recurrent Neural Networks, *The 17th Annual Conference of the International Speech Communication Association (Interspeech).*

2016   **Yossi Adi** and Joseph KESHET. StructED: Risk Minimization in Structured Prediction, *Journal of Machine Learning Research (JMLR).*

2015   **Yossi Adi**, Joseph KESHET and Matt GOLDRICK. Vowel Duration Measurement Using Deep Neural Networks, *The 25th IEEE International Workshop on Machine Learning for Signal Processing (MLSP).*

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