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. Working on machine learning and deep learning models for speech-to-text and text-to-speech.
2017	Research Scientist (internship), FACEBOOK AI RESEARCH, NEW YORK LAB. 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. Working on analysis of unsupervised sentence embeddings.
2013-2014	Software R&D, MEDEDUCE. Developed data and process mining algorithms for patient medical records.

EDUCATION

2014-2019	Graduate Student in Computer Science (Integrated Ph.D. Track), Department of Computer Science, Bar-Ilan University, Ramat-Gan, Israel. Thesis: *Automatic Analysis of Speech and Language Data using Deep Structured Learning* Advisor: Dr. Joseph Keshet
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

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.

SELECTED PUBLICATIONS

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.*

2019   **Yossi Adi**, Neil Zeghidour, Ronan Collobert, Nicolas Usunier, Vitaliy Liptchinsky and 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), Brighton, UK, 2019.*

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 (NIPS), Montréal, Canada, 2018.*

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.*

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, Baltimore, USA, 2018, [Blog].*

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), Alberta, Calgary, Canada, 2018.*

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 (NIPS), Long Beach, CA, USA, 2017.*

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), Stockholm, Sweden, 2017.*

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), Stockholm, Sweden, 2017.*

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), Toulon, France, 2017.*

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), New Orleans, LA, USA, 2017, [code].*

2017   **Yossi Adi**, Einat Kermany, Yonatan Belinkov, Ofer Lavi and Yoav Goldberg, Advanced Analysis of Sentence Embedding Models Using Auxiliary Prediction Tasks, *IBM Journal of Research and Development 61.4, 3-1, 2017.*

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, Volume 140, Issue 6, 2016, [code].*

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), San Francisco, CA, USA, 2016, [code].*

2016	**Yossi Adi** and Joseph Keshet, StructED: Risk Minimization in Structured Prediction, *Journal of Machine Learning Research 17, 1-5, 2016,* [website]*,* [code]*.*
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), Boston, MA, USA, 2015.*

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.
2014-2017	Teaching Assistant, College of Management Academic Studies. Introduction to Computer Science, Data Structures, Algorithms II and OOP.

SERVICE

2018	Reviewer for: NeurIPS, ICML, ICASSP, MLSP, MLSLP.
2019	Reviewer for: NeurIPS, ICML, ICASSP, ICLR, UAI, IJCAI.

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