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

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.

SELECTED PUBLICATIONS

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).*

2020   **Yossi Adi**, Yaniv NEMCOVSKY, Alex SCHWING, Tamir HAZAN. On the
        Generalization of Bayesian Deep Nets for Multiclass Classification. *arxiv
        preprint.*

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 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).*

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).*

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 (NIPS).*

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   **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).*

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

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