

Ehab A. ALBADAWEY

ehalbadawy93@gmail.com

EDUCATION

- FALL 2017- * PhD in ELECTRICAL AND COMPUTER ENGINEERING University at Albany, SUNY, U.S.
SPRING 2022
FALL 2011- * Bachelor of Engineering in COMPUTER ENGINEERING Ain Shams University, Egypt
SPRING 2016

WORK EXPERIENCE

JUN 2022 - PRESENT	META, Menlo Park, CA <i>Applied Research Scientist</i> * Working with Text-to-Speech (TTS) team on developing deep learning models to improve TTS quality and performance
SEPT 2021 - JAN 2022	AMAZON, Seattle, WA <i>Applied Scientist Intern</i> * Worked with AWS speech science team on developing deep learning models for Automatic Speaker Recognition (ASR) Problem.
MAY-AUG 2021	FACEBOOK, Menlo Park, CA <i>Research Intern (FAIAR)</i> * Worked with AI speech team on creating a public benchmark for vocoder quality and speed. * Designed subjective and objective evaluation metrics to compare and evaluate seven different vocoders performance against each other.
JUN-AUG 2020	FACEBOOK, Seattle, WA <i>Software Engineer Intern</i> * Worked with Pages Integrity Bad Actor team on analyzing, comparing, and building high precision detection algorithms for identifying violating Pages. * By the end of the internship I reported the performance of different algorithms while successfully deploying one of them into production.
JUL-SEPT 2016	VALEO, Egypt <i>Algorithms Development Engineer Intern</i> * Worked with systems and functions team on developing an end-to-end object tracking model using RNNs & Torch. * Optimized the existing code and managed to get a good estimation of the entire environment state at the output including occluded objects.

RESEARCH EXPERIENCE

- Aug 2017- Graduate Research Assistant, Electrical and Computer Engineering, University at Albany, SUNY
May 2022 Working on research projects related to media forensics, audio synthesis, and speech signal analysis.
- Nov 2016- Visiting Research Scholar at RAILabs, Department of Radiology, Duke University
Mar 2017 Worked on research projects with focus on brain tumor and breast cancer segmentation in deep learning.
- Fall 2015- Graduation Project Thesis, Computer Engineering Department, Ain Shams University
Spring 2016 * Developed a system for detecting abandoned objects in crowded scenes ([slides](#))
* Worked on the action recognition problem with deep-learning approach using CNNs | [pdf](#), [video](#)

TECHNICAL SKILLS

Strong/Very Good Experience: Python, MATLAB; PyTorch, TensorFlow; LINUX CLI, Git, Vim
Good Experience: Lua, C++, Java, JavaScript; JQuery, AJAX, RoR, Jekyll, HTML, CSS

PUBLICATIONS

- * **Ehab A. AlBadawy**, Andrew Gibiansky, Qing He, Jilong Wu, Ming-Ching Chang, Siwei Lyu "Vocbench: A neural vocoder benchmark for speech synthesis", ICASSP 2022.
- * **Ehab A. AlBadawy**, Siwei Lyu "Voice Conversion Using Speech-to-Speech Neuro-Style Transfer", Proceedings of Interspeech 2020.
- * Mateusz Buda, **Ehab A. AlBadawy**, Ashirbani Saha, Maciej A Mazurowski "Deep Radiogenomics of Lower-Grade Gliomas: Convolutional Neural Networks Predict Tumor Genomic Subtypes Using MR Images", Radiology: Artificial Intelligence 2020.
- * **Ehab A. AlBadawy**, Siwei Lyu, Hany Farid "Detecting AI-Synthesized Speech Using Bispectral Analysis", Proceedings of the IEEE Conference on CVPR Workshops 2019.
- * Zhe Zhu, **Ehab A. AlBadawy**, Ashirbani Saha, Jun Zhang, Michael R Harowicz, Maciej A. Mazurowski "Deep Learning for identifying radiogenomic associations in breast cancer", Computers in biology and medicine 2019.
- * **Ehab A. AlBadawy**, Yelin Kim, "Joint Discrete and Continuous Emotion Prediction Using Ensemble and End-To-End Approaches", ACM ICMI 2018.
- * **Ehab A. AlBadawy**, Ashirbani Saha, Maciej A. Mazurowski, "Deep learning for segmentation of brain tumors: Impact of cross-institutional training and testing", Medical Physics 2018.
- * Zhe Zhu, **Ehab AlBadawy**, Ashirbani Saha, Jun Zhang, Michael Harowicz, Maciej A. Mazurowski, "Breast cancer molecular subtype classification using deep features: preliminary results", SPIE 2018.