

Luz Martinez-Lucas

ELECTRICAL ENGINEER

📞 (214) 791-5131 | ✉️ luzmamtzl3@gmail.com | 🏠 LuzMtzL.github.io | 🌐 LuzMtzL

Education

The University of Texas at Dallas

MASTER OF SCIENCE IN ELECTRICAL ENGINEERING, GPA: 4.00/4.00

- Signals and Systems Concentration

Richardson, TX

Expected May 2023

The University of Texas at Dallas

BACHELOR OF SCIENCE IN ELECTRICAL ENGINEERING, GPA: 3.99/4.00

- Graduated Summa Cum Laude
- Fully funded by an *Academic Excellence Scholarship* (AES)
- On Dean's List for four semesters

Richardson, TX

May 2021

Publications

- [1] L. Martinez-Lucas, M. Abdelwahab, and C. Busso, "The MSP-conversation corpus," in *Interspeech 2020*, Shanghai, China, October 2020, pp. 1823–1827.
- [2] L. Martinez-Lucas, W.-C. Lin, and C. Busso, "Analyzing continuous-time and sentence-level annotations for speech emotion recognition," *IEEE Transactions on Affective Computing*, vol. submitted, Nov 2021.

Experience

Multimodal Signal Processing (MSP) Laboratory

MACHINE LEARNING RESEARCHER

- Creating a neural network that recognizes the emotional content in a speech signal
- Assisting fellow researchers
- Training annotators to use equipment and software
- Collecting naturalistic speech data from publicly available sources

The University of Texas at Dallas

May 2018 - PRESENT

Projects

Speech Emotion Recognition using Machine Learning

LEAD RESEARCHER

- Creating a new method of speech emotion recognition using continuous conversational speech data
- Applying and combining existing machine learning structures for speech emotion recognition
- Skills: Python, MATLAB, Keras, PyTorch, LSTM, Graph Neural Networks, Self-Attention, Neural Processes

MSP Laboratory

Jan 2020 - PRESENT

Deepcut: a Robot that Raps

LEAD SOFTWARE DEVELOPER

- Team project awarded first place at the UDesign Senior EXPO for Electrical and Computer Engineering
- Building a prototype of a wireless performance robot
- Writing code for a text-to-rap module using flowtron as the text-to-speech model
- Skills: Python, MATLAB, Linux, GitHub, RaspberryPi

The University of Texas at Dallas

Aug 2020 - May 2021

MSP-Conversation Corpus

LEAD RESEARCHER

- Corpus of time-continuous emotional annotations of natural conversations
- Leading current efforts to expand the corpus by collecting audio and training annotators
- Skills: MATLAB, CARMA

MSP Laboratory

Jan 2020 - PRESENT

Awards

Jonsson School Undergraduate Research Award

UNDERGRADUATE RESEARCHER

- Received award for my ongoing speech emotion recognition research
- Created a poster describing my research and results

The University of Texas at Dallas

Apr 2021

Undergraduate Research Scholar Award

UNDERGRADUATE RESEARCHER

- Received award for my research at the MSP Laboratory
- Presented my work with a poster and oral presentation

The University of Texas at Dallas

Apr 2020

Workshop for Young Female Researchers in Speech Science & Technology

UNDERGRADUATE RESEARCHER

- Received grant to attend the workshop and conference in Austria
- Presented my research during the workshop to fellow participants and mentors

Interspeech 2019, Graz, Austria

Sep 2019

Dean's List

UNDERGRADUATE STUDENT

- Recognition for being in the top 10% of all undergraduate students for the semester

The University of Texas at Dallas

May 2021, May 2019, Dec 2019, Dec 2018

Academic Excellence Scholarship (AES)

UNDERGRADUATE STUDENT

- Received full scholarship and stipend from the University of Texas at Dallas for my undergraduate education

The University of Texas at Dallas

Aug 2017 - May 2021

Skills

| | |
|------------------|---------------------------------------------|
| Fluency | Spanish, English |
| Languages | Python, MATLAB, LaTeX, Limited: C, C++, CSS |
| Tools | Keras, PyTorch |
| Other | Linux, GitHub, LabView, PSpice, LogicWorks |