

Wassim Bouaziz

Computer Science & Machine Learning Research

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Education

- 2019 - 2020 **MSc Mathematics, Vision, Machine Learning, ENS Paris-Saclay**, Paris, France.
Classes: Convex Optimization, Medical Imaging, Graphs in Machine Learning.
- 2018 - 2020 **MSc Machine Learning, Information,Content, Université Paris-Saclay**, Orsay, France.
Classes: Deep Learning, Voice Recognition, Reinforcement Learning, Learning Theory.
- 2016 - 2019 **MSc in Engineering & Major in Computer Science, CentraleSupélec**, Gif-sur-Yvette, France.
Top school in France in Computer Science and Electrical Engineering. GPA: 3.9 / 4.0.
Classes: Algorithmic, Statistics, Signal Processing, Logic, Quantum Physics, Economy.
- 2014 - 2016 **Preparatory program for Grandes Ecoles, Lycée Blaise Pascal**, Orsay, France.
Two-year undergraduate preparatory studies for entrance examination to French Engineering Schools.

Experience

- July – Nov. 2020 **Research Intern, Facebook AI Research**.
Working on data augmentation techniques to **improve robustness** of Speech Recognition systems to noise. Under supervision of Gabriel Synnaeve, Gilad Avidov, Awni Hannun & Ronan Collobert.
- April – Aug. 2019 **Research Intern, ENS Paris**, France.
Worked in the **CoML** (Cognitive Science & Machine Learning) team for **classification** of child / adult directed speech for a worldwide child language analysis project (ACLEW).
- Oct. 2018 – Apr. 2019 **Graduate Research Assistant, CentraleSupélec**, France.
Worked with two professors and a PhD student from LRI (Université Paris-Sud) on an **FPT algorithm** for **vertex minimum cuts counting** in graphs with state of the art complexity.
- June – Aug. 2018 **Embedded Software Intern - AI, Snips (now Sonos)**, Paris, France.
Developed **real time speech recognition** applications with a **< 30% CPU load** by using Snips' technology on a Cortex-M7 microcontroller.

Publications

On the parameterized complexity of counting small-sized minimum (S,T)-cuts. *P. Bergé, W. Bouaziz, A. Rimmel, J. Tomaszik.*

pyannote.audio: neural building blocks for speaker diarization. *H. Bredin, ..., W. Bouaziz.* **ICASSP 2020**, IEEE International Conference on Acoustics, Speech, and Signal Processing. Open source toolkit for speaker diarization. <https://arxiv.org/abs/1911.01255>

Speaker detection in the wild: Lessons learned from JSALT 2019. *P. Garcia, ..., W. Bouaziz, E. Dupoux.* <https://arxiv.org/abs/1912.00938>

Projects

- Dec. 2018 – Jan. 2019 **Graph Attention Networks to solve the Travelling Salesman Problem.** Academic Project. Supervised by Dr. Petar Veličković.
- June – July 2019 **Jelinek Summer Workshop on Speech and Language Technology.** Research Project - ÉTS Montréal - "Speaker Detection in Adverse Scenarios with a Single Microphone".

Skills

Technical skills

Prog. Language Python 3, Bash, C, C++, MATLAB, Java

Language

French Native speaker

Libraries NumPy, SciPy, PyTorch, librosa, scikit-learn, Tensorflow, OpenAI Gym

English Fluent (TOEFL ITP : 637/677)

Web HTML, CSS, JS, Flask, SQL

Spanish B2

Miscellaneous Algorithmic, Unix, git, RegEx, Information Security, Graphical design, video editing, LaTeX

Arabic A1+