

Morgan Buisson

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EDUCATION

- Télécom Paris, Institut Polytechnique de Paris** Paris, France
PhD, Music Information Retrieval Oct. 2021 – Present
- Subject: Audio-based music structure analysis.
 - Supervisors: Prof. Slim Essid, Dr. Brian McFee.
- Pompeu Fabra University (UPF)** Barcelona, Spain
Master of Science, Sound and Music Computing Sep. 2020 – June 2021
- Institut National des Sciences Appliquées (INSA)** Rouen, France
Master's Degree in Engineering, Applied Mathematics Sep. 2014 – Dec. 2019

EXPERIENCE

- Scientific Advisor** Feb. 2020 – July 2020
Aubay France Boulogne-Billancourt, France
- Planned research directions for projects studied by current and future interns
- Engineering Intern** June 2019 – Dec. 2019
Aubay France Boulogne-Billancourt, France
- Web mining, graph theory, bayesian networks
- Research Intern** June 2017 – September 2017
Carnegie Mellon University Pittsburgh, PA, USA
- Computer Science department, summer internship in Music and Computing

PROJECTS

- MSci Thesis (UPF)** Nov. 2020 – June 2021
- Improving Generalization of Deep Learning Music Classifiers
- Final Project (INSA)** Sep. 2018 – June 2019
- Automatic Music Genre Classification using Deep Learning

PUBLICATIONS

- **Morgan Buisson**, Brian McFee, Slim Essid. Using Pairwise Link Prediction and Graph Attention Networks for Music Structure Analysis. (Accepted at ISMIR 2024).
- **Morgan Buisson**, Brian McFee, Slim Essid, Hélène-Camille Crayencour. Self-Supervised Learning of Multi-level Audio Representations for Music Segmentation. *IEEE/ACM Transactions on Audio, Speech and Language Processing*, 2024, pp.1-13.
- **Morgan Buisson**, Brian McFee, Slim Essid, Helene-Camille Crayencour. A Repetition-based Triplet Mining Approach for Music Segmentation. *International Society for Music Information Retrieval (ISMIR)*, Nov 2023, Milan, Italy.
- **Morgan Buisson**, Brian McFee, Slim Essid, Helene-Camille Crayencour. Learning Multi-Level Representations for Hierarchical Music Structure Analysis. *International Society for Music Information Retrieval (ISMIR)*, Dec 2022, Bengaluru, India.
- **Morgan Buisson**, Pablo Alonso-Jiménez and Dmitry Bogdanov. Ambiguity Modelling with Label Distribution Learning for Music Classification. *IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP)*, Singapore, 2022, pp. 611-615.

TEACHING

Courses given as a teaching assistant throughout my PhD studies at Télécom Paris:

- Introduction to Machine Learning.
- Advanced Machine Learning.
- Conditional Random Fields.

TECHNICAL SKILLS

Languages: Python, Java, C

Developer Tools & Frameworks: Flask, IPython (Jupyter) Notebook, Git, Eclipse, Visual Studio, Git, Linux

LANGUAGES

French: Native Language **English:** High Level, C1 European Framework, TOEIC Score : 965/990, TOEFL Score : 111/120 **Spanish:** High Level, C1 European Framework