

Morgan Buisson

(+33)640555251 | morgan.buisson76@gmail.com | linkedin.com/morgan-buisson | google.scholar.com/morgan-buisson | github.com/morgan76

EDUCATION

Institut Polytechnique de Paris <i>PhD, Music Information Retrieval (Music structure analysis)</i>	Paris, France Oct. 2021 – Present
Pompeu Fabra University (UPF) <i>Master of Science, Sound and Music Computing</i>	Barcelona, Spain Sep. 2020 – June 2021
Institut National des Sciences Appliquées (INSA) <i>Master Degree in Engineering, Applied Mathematics</i>	Rouen, France Sep. 2014 – Dec. 2019

EXPERIENCE

Scientific Advisor <i>Aubay France</i> <ul style="list-style-type: none">Scientific advisor for the R&D departmentPlanned research directions for projects studied by current and future internsComputer vision, reinforcement learning, web mining	Feb. 2020 – July 2020 <i>Boulogne-Billancourt, France</i>
Engineering Intern <i>Aubay France</i> <ul style="list-style-type: none">Research in Web Mining and Machine LearningMarkov chains, graph theory, reinforcement learning, bayesian networksPython, Java JEE, Neo4J	June 2019 – Dec. 2019 <i>Boulogne-Billancourt, France</i>
Research Intern <i>Carnegie Mellon University</i> <ul style="list-style-type: none">Computer Science department, summer internship in Music and ComputingHCMP Project (Human Computer Music Performance)Java software displaying music scores during a live performanceImproved overall performance, added dynamic annotations, deployed to mobile devices	June 2017 – September 2017 <i>Pittsburgh, PA, USA</i>

PROJECTS

MSci Thesis (UPF) <i>Python, Librosa, Essentia, Tensorflow</i> <ul style="list-style-type: none">Improving Generalization of Deep Learning Music ClassifiersImplementing Audio Data Augmentation and Outliers Detection techniquesNoise Robustness, Label Distribution Learning	Nov. 2020 – June 2021
Final Project (INSA) <i>Python, Librosa, Scikit-Learn, Tensorflow</i> <ul style="list-style-type: none">Automatic Music Genre ClassificationCompared performance of Feed-Forward, Convolutional and Recurrent Neural Networks	Sep. 2018 – June 2019

TECHNICAL SKILLS

Languages: Python, Java
Developer Tools & Frameworks: Flask, IPython (Jupyter) Notebook, Git, Eclipse
Libraries: Pandas, NumPy, Matplotlib, Seaborn, Librosa, Essentia, Scikit-Learn, TensorFlow

SCIENTIFIC SKILLS

Mathematics: Probability & Statistics, Stochastic Processes, Graph Theory, Optimization, Signal Processing
Computer Science: Data Structures, Dynamic Programming, Multimedia Technologies, Computational Creativity
Others: Music Perception, Cognitive Sciences

LANGUAGES

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