

# Morgan Buisson

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## EDUCATION

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

## EXPERIENCE

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<b>Scientific Advisor</b> <i>Aubay France</i> <ul style="list-style-type: none"><li>Planned research directions for projects studied by current and future interns</li></ul>	Feb. 2020 – July 2020 <i>Boulogne-Billancourt, France</i>
<b>Engineering Intern</b> <i>Aubay France</i> <ul style="list-style-type: none"><li>Web mining, Markov chains, graph theory, reinforcement learning, bayesian networks</li></ul>	June 2019 – Dec. 2019 <i>Boulogne-Billancourt, France</i>
<b>Research Intern</b> <i>Carnegie Mellon University</i> <ul style="list-style-type: none"><li>Computer Science department, summer internship in Music and Computing, Human Computer Music Performance project</li></ul>	June 2017 – September 2017 <i>Pittsburgh, PA, USA</i>

## PROJECTS

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<b>MSci Thesis (UPF)</b> <ul style="list-style-type: none"><li>Improving Generalization of Deep Learning Music Classifiers</li></ul>	Nov. 2020 – June 2021
<b>Final Project (INSA)</b> <ul style="list-style-type: none"><li>Automatic Music Genre Classification using Deep Learning</li></ul>	Sep. 2018 – June 2019

## PUBLICATIONS

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- **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

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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

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**Languages:** Python, Java, C

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

## LANGUAGES

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