

Friday 22nd September in Leuven

9:30 – 10:30

AEC Talk 3

## Artificial Intelligence in Higher Music Education

by **Sandrine Desmurs, Thom Guilbert, Enric Guaus**, ARTEMIS Digitisation working group

Artificial intelligence is on everyone's lips these days. What are we talking about? What are its uses in music? And in music education? After a general overview to understand AI, we'll take a look at a number of examples of use in musical practice and also talk about the immediate challenges posed by Large Language Models to established methods of assessment, propose strategies for navigating these challenges and discuss the opportunities that may emerge in responding to the use of this technology in higher music education.

The [AEC ARTEMIS Digitisation Working Group](#) is composed by international digital experts belonging to AEC Member Institutions. The group helps the AEC assisting HMEIs in dealing with the digital shift (which is affecting their own practices and educational methods, as well as the way in which artists interact with their audience). The group also collects and analyses data to ultimately provide guidance to the sector on how to develop and test tools that have been created to both practice distance learning and teaching as well as enhance digitally supported remote ensemble play.



### **Sandrine Desmurs (Digitisation WG Chair)**

A self-taught musician, Sandrine Desmurs holds a state music teacher's diploma obtained in 2005 from Cefedem Rhône-Alpes, and has taught contemporary amplified music for some fifteen years in several regional structures (associations, schools or conservatories) alongside her artistic activities as a singer. Since 2006, at Cefedem Auvergne Rhône-Alpes, she has taken a keen interest in digital and web tools (website, collaborative tools, study platform, etc.). Today, she holds a Master's degree in Information Architecture from the Ecole Normale Supérieure

de Lyon, and is responsible for developing the school's information and communication technologies, particularly for use in initial and continuing training courses. She is in charge of implementing the e-learning program for on-the-job training, and is also a trainer in this program. Her research focuses on digital cultures and their impact on training and mediation initiatives, particularly in the music world. She is currently involved in a number of national and European research projects (in particular with the European Association of Conservatoires), and gives lectures and training courses in the

field of specialized music teaching. She is also a guest lecturer at the Claude Bernard University in Lyon, where she teaches Digital Cultures.



**Thom Gilbert (Digitisation WG Member)**

Thom Gilbert is the Digital Learning Manager at the Royal College of Music, a music graduate and qualified teacher. Before joining the RCM he was Head of Music and Music Technology departments in schools and colleges across East Sussex, specialising in the application of technology in class music teaching and, in his last role, leading the development of Digital Learning strategy and practice.



**Enric Guaus (Digitisation WG Member)**

Enric Guaus (Barcelona, 1974) is a co-founder at Sheepdog and a researcher at the Escola Superior de Música de Catalunya (ESMUC), where he directs the Technologies and Musical Interaction group. He also holds positions as an associate professor at ESMUC and the Escola de Noves Tecnologies Interactives (ENTI-UB), teaching a diverse range of courses including Acoustics, Electronics, Sound Design, Computer Science, Signal Processing, Mathematics, and Artificial Intelligence.

Enric earned his PhD in Computer Science and Digital Communications from Universitat Pompeu Fabra (UPF) in 2009, focusing on automatic music genre classification in his dissertation. Currently, his research is centered around developing interactive applications that integrate artificial intelligence algorithms with a special emphasis on enhancing live performances.

In addition to his academic and research pursuits, Enric is member of the Observatori de Prevenció Auditiva per als Músics (OPAM), highlighting his dedication to promoting auditory health among musicians, and contributor to Wikipedia and Media Commons