Master of Arts Music Informatics Director Studies

Objectives

Electronic and computer technologies have enabled new forms of expression to appear in music. With this in mind, two key areas require distinction: writing and composing music using the computer (CAMP) and digital audio, recording, sound analysis, transformation and mixing. These new forms of expression require songwriters and performers to train in these new tools and new concepts. New careers are also appearing such as electro acoustic musicians who are, in a way, a combination of musician and programmer, and music informatics directors who support the composer by producing the computer sections of their piece [1].

In 2011 we began to provide a vocational course that has never-before-been-seen in France providing knowledge and expert handling of cutting-edge technological tools and their artistic applications. This course is for people who have both experience in traditional music and music informatics. Science A-levels are highly recommended.

This course includes joint classes with the Professional Digital Art Director Master (available in September 2016).

[1] This career was listed on the French directory of professional certifications by IRCAM in 2007.

Who's it for?

Entry requirements

The selection for the Master II "Music Informatics Director" students is based on academic records, an interview with a panel and a listening written commentary exercise (musical culture and writing skills).

> Apply for the Master 2 "Music Informatics Director"

Skills

The Master is designed to train students in the use and design of digital tools as well as in sound design methods. It provides knowledge in a variety of areas:

> Designing, managing and directing musical projects using digital technologies from the choice and design of tools to the performance on stage
> Composition (acoustic, electroacoustic, mixing)
> Knowledge of 20th and 21st century repertoires, musical analysis, composition
> Understanding of different types of music informatics software
> Training in programming languages for signal processing, real time and composition
> Study of multimedia tools (cinema, video games, internet)
> Sound engineering, signal processing, acoustic
> Live recording, recording studio mixing, sound and sound system management

> New instruments, electronic instrument design, sensor technologies, human-computer interaction, MIDI equipment

What's next?

Prospects

This course primarily trains students to be music informatics directors. Music informatics directors are key figures in musical productions. They interact between music informatics researchers, software designers and composers (or artists) who need to use cutting-edge technology in musical or audio productions. Graduates in this degree can work in the following areas (or positions):

> Music informatics director
> Sound engineer musician
> Sound engineer specialising in new technologies
> Composer specialising in electro acoustic
> Musicologist (research, creation, composition)
> CAMP teacher

Teaching staff

This course has a teaching staff of over 20 who are teachers at the Lyon/Saint-Etienne University (musicology, ethnomusicology, graphic art, IT and acoustics) and professionals working in partner structures (FIL, GRAME, CNSMDL, CRR-SE) or world-renowned centres or companies (IRCAM, CRR Nice, Ubisoft, Cycling74, CNMAT etc.).

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