



Course Module Description

General module information

Title: Research in Sound and Music Computing
Type: Course module
Language of instruction: English
Location of the lecture: Campus Copenhagen

ECTS points: 5 ECTS

Period: 1 September 2022 — 31 January 2023

Placement

3rd semester, M.Sc. in Sound and Music Computing

Module coordinator

[Stefania](#) Serafin (coordinator), [Judi Stærk Poulsen](#) (secretary)

Academic content and relationships to other modules/semesters

The formal study plan description of the module can be found here:

<https://moduler.aau.dk/course/2022-2023/MSNSMCM3202?lang=da-DK>

The goal of this course is to perform advanced work in one specific area of sound and music computing, building upon the foundations gained in the 7th and 8th semester. Students explore state-of-the-art theories and techniques in a formalized manner by analyzing a selection of new research texts in a specific area of sound and music computing through, e.g., critical annotations, paper presentations, reproduction of experiments, blogs and vlogs, etc. Possible areas of research are music information retrieval, music perception and cognition, sonic interaction design, sound and music signal analysis and synthesis, and new interfaces for musical expression. The course is organized as a supervised study circle in which students will read, present, and discuss state-of-the-art research papers.

Objectives and learning goals

The course aims at the following:

- The students should be able to read and understand research papers in the scientific community of Sound and Music Computing.
- They should be able to understand and describe the involved theories and principles.
- They should be able to reflect on the papers and discuss them.
- They should be able to implement the scientific methods of the literature.
- They should be able to reproduce the results reported in papers.
- They should be able to apply concepts, tools, theories and technologies of the studied literature to address a specific research problem.

Extent and expected workload

The total workload is 5 ECTS. The course is organized as a supervised study circle. It is broken down to preparation for sessions 1 ECTS, discussions during sessions 1 ECTS, exercises for sessions 1 ECTS, 1 ECTS work on an individual project, and 1 ECTS preparation for the exam.

Pre-requisites for participation

See the module description (find the link above) for any further detail on pre-requisites.

Examination Modality and duration: Individual oral exam based on submitted mini project. The duration will be 15 minutes followed by 5 minutes deliberation

Assessment: In accordance with the 7-point grading scale

Pre-approved aids: Mini project report (blog/vlog) and slides for presentation of same

Prerequisites for participation: Timely hand-in of project documentation

Further detail on the exam: In the beginning of the exam the student will do an approximately 5 minutes presentation of the mini project, after which the examiner will ask follow-up questions within the topic of



the mini-project and the entire curriculum. The mini project will be evaluated and will count towards the grading in conjunction with the oral performance.

Information concerning the mini-project: The mini-project is individual, and it is documented as a markdown blog enhanced with AV (vlog). The blog/vlog can be used as presentation during the exam. The topic of the mini project is chosen in the first lecture of the course by the student and will be displayed at Moodle for all participants. During the final course session, each student will present their mini-project to all participants and will receive peer-feedback. Based on these, the report in the pdf form will be handed in to Moodle two weeks before the oral exam date.