

# Sound Studies and Sonic Arts

## Summer Semester 2022

**Phase** Focus

**Module** Practice, Listening

**Course Title** Wave Field Synthesis Workshop | Workshop

**Course Times and Location** 13 – 17 June 2022 | EIN103

**Instructors** [Thomas Koch](#), [Dr. Johannes Regnier](#)

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**Office Hours and Location** upon request after class

## Course Description

The Wave Field Synthesis workshop is a 1-week intensive workshop where the students explore the artistic potential and the challenges in the use of the Sound Studies and Sonic Art's Wave Field Synthesis (WFS) system, a high density 96-loudspeaker array.

- Course format is a workshop with practical examples and hands-on lessons.
- The course is aimed at students interested in gaining a better understanding of perception, space and sound.
- After the class, you will be able to develop and realize pieces for WFS-Systems and other high-resolution object-based reproduction systems.

## Requirements for attending

Class is limited to 8 students.

Basic competences in MAX or Pd are required. Please bring your laptop with the following software installed: Ableton Live (available here: <https://www.ableton.com/en/>), MAX (available here: <https://cycling74.com/>) or Pure Data (available here: <http://msp.ucsd.edu/software.html>).

## Exam / Credit Points

**2CP (graded: Practice, Listening):** Regular attendance and project presentation. Participation in the project presentations is mandatory for taking this seminar.

No 4CP option is available.

## Schedule

Session	Topic
1 (6h)	Recap (Localisation, Spatialisation, WFS...) & listening Session, introduction to the WFS system
2 (6h)	Tools and Approaches, OSC, Reverb, Real-time control
3 (6h)	Concept development & studies
4 (5h)	Guided work on projects
5 (5h)	Project Presentations