

Teaching portfolio

1. Teaching CV: A list of any lecturing and supervision tasks, including specification of academic fields, scope, level (bachelor, master, continuing education, PhD) as well as any external examiner tasks.

TEACHING

Aalborg University, Aalborg 2023–Present

Associate Professor at Department of Electronic Systems

Advanced Spectral Estimation

- Program: Ph.D. course at the Doctoral School, Aalborg University.
- Role: Course organizer
- Period: 2023-2024

Signal and Spectral Analysis: extracting information from noisy data

- Program: Ph.D. course at the Doctoral School, Aalborg University.
- Role: Course organizer
- Period: 2023-2024

Advanced Signal Processing

- Program: M.Sc. in Electronic Systems, 1st & 3rd semester
- Role: Course lecturer
- Period: 2023-2024

AI & Data

- Program: B.Sc. in Artificial Intelligence Engineering, 2nd semester
- Role: Course organizer
- Period: 2024-2025

Processing of Audio Signals

- Program: B.Sc. in Medialogy, 4th semester
- Role: Course organizer
- Period: 2023-2025

Student Supervision

- Supervision of 1 group, M.Sc. in Electronic Systems, 4th semester, 2025.
- Supervision of 1 group, M.Sc. in Electronic Systems, 2nd semester, 2025.
- Supervision of 1 group, M.Sc. in Computer Engineering, 4th semester, 2025.
- Supervision of 2 groups, B.Sc. in Robotics Engineering, 6th semester, 2025.
- Supervision of 3 groups, B.Eng. in Artificial Intelligence Engineering, 2nd semester, 2025.
- Supervision of 1 group, M.Sc. in Electronic Systems, 1st semester, 2024.
- Supervision of 1 group, M.Sc. in Electronic Systems, 3rd semester, 2024.
- Supervision of 2 groups, M.Sc. in Electronic Systems, 4th semester, 2024
- Supervision of 1 group, B.Sc. in Electronic Systems, 6th semester, 2024
- Supervision of 2 groups, B.Eng. in Artificial Intelligence Engineering, 2nd semester, 2024.
- Supervision of 1 group, M.Sc. in Electronic System, 1st semester, 2023
- Supervision of 2 groups, M.Sc. in Electronic Systems, 3rd semester, 2023

Aalborg University, Aalborg 2012–2023

Postdoc, Assistant Professor, Associate Professor at Department of Arch., Design, and Media Tech.

Signal Processing for Interactive Systems

- Program: M.Sc. in Medialogy, 2nd semester and M.Sc. in Sound and Music Computing, 2nd semester
- Role: Course organizer and developer
- Period: 2023

Physical Prototypes and Interactions

- Program: B.Sc. in Medialogy, 4th semester
- Role: Course organizer and developer
- Period: 2023

Topics in Audio and Acoustic Signal Processing

- Program: Ph.D. course at the Doctoral School
- Role: Course lecturer
- Period: 2021

Signal and Spectral Analysis: extracting information from noisy data

- Program: Ph.D. course at the Doctoral School
- Role: Course lecturer
- Period: 2019–2022

Advanced Topics in Acoustic Array Signal Processing

- Program: Ph.D. course at the Doctoral School
- Role: Course lecturer
- Period: 2018

Programming of Complex Software Systems

- Program: B.Sc. in Medialogy, 3rd semester
- Role: Course organizer and developer
- Period: 2017–2021

Robotic Sensing

- Program: B.Sc. in Robotics, 4th semester
- Role: Course lecturer
- Period: 2016, 2018–2022.

Sound Processing

- Program: M.Sc. in Sound and Music Computing, 1st semester
- Role: Course organizer
- Period: 2014–2017.

Physical Interface Design

- Program: B.Sc. in Medialogy, 4th semester
- Role: Course organizer and developer
- Period: 2013–2022.

Sound and Music Signal Analysis

- Program: M.Sc. in Sound and Music Computing, 2nd semester
- Role: Course lecturer
- Period: 2015–2016.

Advanced Speech Processing

- Program: Ph.D. course at the Doctoral School
- Role: Course lecturer
- Period: 2015

Multivariate Statistics and Pattern Recognition

- Program: M.Sc. in Medialogy
- Role: Course lecturer
- Period: 2013

Student Supervision

Supervised ~40 groups/students in the following programs:

- B.Sc. Medialogy, M.Sc. Medialogy, B.Sc. Robotics, B.Sc. Electronic Systems.

2. Study administration: A list of any study administration tasks, e.g. study board membership, head of studies or semester or course coordinator, accreditation, etc.

SEMESTER COORDINATION

- M.Sc. in Mathematical Engineering, 1st semester, 2023, 2024.
- M.Sc. in Sound and Music Computing, 2nd and 3rd semester.
- B.Sc. in Medialogy, 4th semester.
- B.Sc. in Robotics, 4th semester.

STUDY BOARDS

Member of Study Board for Media Technology, Aalborg University, 2020-present

3. University pedagogy qualifications: A list of any completed courses in university pedagogy, PBL courses, workshops, academic development projects, collegial guidance and supervision, etc.

TEACHING PROJECTS

Enhancing Technical Understanding in Interdisciplinary Educations through Generative AI-Assisted

- Description: Using AI-tools to enhance teaching in creative educations, e.g., for code generation.
- Program: AI Projects for Education, PBL Digital – ITS, Aalborg University.
- Period: 2024
- Role: Principal Investigator
- Budget: 100.000 DKK

UNIVERSITY PEDAGOGY SUPERVISION

Has been university pedagogy supervisor for:

- Brian Bemman, "Problem of the Day: A Proposal for Engaging and Balanced Introductory Instruction in PBL", 2021.

TRAINING AND COURSES

- University Pedagogy for Assistant Professors (Adjunktpædagogikum), Learning Lab, Aalborg University, 2018.
- Followed the course 'Introduction to Problem Based Learning - The AAU Way' in Fall 2009 at Aalborg University.

4. Other qualifications: Conference attendance, editorials, presentations, etc. relating to education, 'University Teaching Day', etc.

5. Teaching activity development and teaching materials: A list of any contributions to the development of new modules, teaching materials, study programmes, e-learning, collaboration with external business partners, etc.

STUDY PROGRAMMES

- Contributed to the revision in 2014 of the curriculum for the B.Sc. in Medialogy.
- Contributed to the development and curriculum of a new study program (M.Sc. in Sound and Music Computing) at Aalborg University.

6. Teaching awards you may have received or been nominated for.

HONORS AND AWARDS

Teacher of the Year, 2017

Awarded the teacher of the year prize by the Study Board of Media Technology at Aalborg University.

7. Personal reflections and initiatives: Here you may state any personal deliberations as regards teaching and supervision, any wishes and plans for further pedagogic development, plans for following up on feedback/evaluations from students, etc.

8. Any other information or comments.