Teaching portfolio

1. Teaching CV: A list of teaching and supervision tasks, including specification of academic fields, scope, level (bachelor, master, continuing education, PhD). Please state the teaching method used (e.g. lecture, class teaching, exercises, supervision, examination, coexamination, distance teaching, internet-based teaching and evaluation of teaching). Please also indicate the language of instruction.

Courses

- Initial Programming and Visualization: Autumn 2025
- Introductory Programming for Data Science: Autumn 2024
- Computability and Complexity (DAT6, AAU): Spring 2024, 2025
- Algorithms and Computability (SW6-KBH, AAU): Spring 2023, 2024, 2025
- Computer Architecture and Operating Systems (BAIT5, AAU): Autumn 2021, 2022, 2023, 2024, 2025
- Formal Methods (3rd year bachelor course, University of Liverpool): 2019, 2020 (online), 2021 (online)
- Reactive Synthesis (advanced bachelor course, Saarland University): Winter 2017/18 (co-taught)
- Recursion Theory (advanced bachelor course, Saarland University): Summer 2015
- Infinite Games (advanced bachelor course, Saarland University): Winter 2013/14, Summer 2016
- Verification (core bachelor course, Saarland University): Summer 2013 (co-taught)

Seminars

- Advanced Topics in Infinite Games (bachelor level, Saarland University): Summer 2014

Project Supervision

- 18 Projects in various semesters at AAU: SW1, SW3, DAT4, SW4, SW5, IT7, DAT8
- ca. 25 final-year projects (Bachelor and Master) at University of Liverpool

2. Study/programme administration and management: Experience in programme management and coordination. A list of study administration tasks, e.g. study board membership, chair of study board, semester or course coordinator, accreditation tasks, etc. Experience in planning teaching activities. Experience in programme development. Participating in committees and commissions etc. on education issues.

- UPU representative for the DEIS group at the computer science department
- Module Coordinator for "Formal Methods" at University of Liverpool (2019 -2021)
- Developed the courses "Infinite Games", "Recursion Theory", and "Reactive Synthesis" (teaching materials, exercises, etc.)

3. Formal pedagogical training: A list of completed courses in university pedagogy, PBL courses, workshops, academic development projects, collegial guidance and supervision, etc. Written assessment from the course in university pedagogy for assistant professors. Participation in conferences on pedagogy and didactics. Please enclose any documentation of the above, such as course certificates, references, etc

- Departmental PBL course at AAU: 2021
- Fellow of the Higher Education Academy (UK): since 2021 (course work 2019 -2021)
- Habilitation and venia legendi from Saarland University: 2019

4. Other qualifications: Conference contributions and attendance, contributions to debates, scientific articles on pedagogical issues etc. Peer supervision, editorials, mentoring experience or other types of competence development activities.

Peer evaluation at University of Liverpool

5. Pedagogical development and research: Development of new courses, teaching materials, teaching methods, examination types or other types of pedagogical development. Didactic and pedagogical research. Cooperation with external collaboration partners.

- Lecture notes "Infinite Games", 92 pages, developed for the eponymous course: https://homes.cs.aau.dk/~mzi/teaching/lecture-notes%20infinite%20games.pdf
- Developed a web-app for the lecture "Infinite Games", allowing students to submit and solve exercises graphically (unpublished)

6. References on your teaching skills from superiors or colleagues. Teaching evaluations and any teaching awards received.

Type your answer here...

7. Personal reflections and initiatives: Here you may state any personal deliberations as regards teaching and supervision, any wishes and plans for further pedagogical development, plans for following up on student feedback/evaluations, etc. Personal reflections on your own pedagogical practice, including objectives, methods and implementation. This should include an analysis and a reasoned description of your pedagogical activities in relation to your pedagogical understanding and student learning. Thoughts on the teaching method at Aalborg University (which is largely based on group-organised project work and problem-based learning)

Type your answer here...

8. Any other information or comments.

Type your answer here...