Teaching portfolio

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TEACHING EXPERIENCE

I have many years of teaching experience from my current position and also while conducting my PhD research. Currently, I have taught at both the Bachelor and Master´s level (as listed below), and been involved in designing almost all of the courses I have taught. Over the years, I have supervised several term papers, bachelor theses, and master's theses. Additionally, I have taught both long and short courses in several different countries, such as the United Kingdom, China, Taiwan, and Denmark. A lot of what I have learned from my multi-cultural experience can be transferred to my teaching. My classroom teaching blends lecturing, case discussions, and student presentations. I use varied methods to evaluate my students' learning outcomes, such as written/oral exams and individual/group assignments. The exact proportion of the mixture depends on the size of the class and the level of the students.

This is a fairly complete list of courses I have taught:
•MSc (Eng) in Energy Business Ecosystem
•MSc (Eng) in Software Business Ecosystem
•MSc (Eng) in Scientific Methods
•MSc (Eng) in Innovative Energy Solutions
•MSc (Eng) in Innovative Software Solutions
•MSc (Eng) in Product and Innovation Management
•MSc (Eng) in Qualitative Market Research
•MA in International Business
•MSc and BA in Design of Operations Facilities and Systems
•MSc in Time Management
•BSc (Eng) in Cross-Cultural Management
•BSc (Eng) in Innovation Strategy
•BSc (Eng) in Product Development and Innovation
•BSc (Eng) in Qualitative Market Research

Educational practice - Basis / values

My teaching aim is not only to train students in applying theories and models to identify, analyse, discuss, and solve practical problems, but also to equip them with creative thinking skills and an innovative spirit in a global context. Specifically, my teaching is highly practice-based. I try to encourage my students to identify and solve the real problems or challenges in a particular situation/case, identify the pertinent theories or models which may intuitively provide an understanding of the problem and its attendant context, and then embed the innovation concept to reach potential strategic solutions.
In terms of my background, I am fully experienced in cultural diversity due to having worked and taught in several different countries. My international experience strengthens my teaching methods based on my understanding of different students' background, interests, and demands.

FORMAL PEDAGOGICAL TRAINING

I completed the Danish university teachers´ pedagogical training programme in December 2012, and also attended the Associate Teachers' Programme (ATP) while conducting my PhD research at the University of Nottingham.

OTHER ACTIVITIES RELATED TO TEACHING AND TEACHING DEVELOPMENT

2017-2018: Internal mentor for SDU Lecturer Training Programme
2017: Project of Developing Students Inter-Cultural Competences

Research outputs

Closed-Book Probing of Electricity-Market Role Knowledge in Language Models: The ENTSO-E Harmonised Role Model

Gärdström, H. F., Jørgensen, B. N. & Ma, Z. G., 2027, *Energy Informatics - 6th Energy Informatics Academy Conference, EI.A 2026, Proceedings.* Jørgensen, B. N., Ma, Z. G., Duan, H., Zhu, L., Wang, Z., Zhang, L., Du, H., Ma, T., Tang, X., Wang, Q., Wu, S. & Zhang, Y. (eds.). Springer Science+Business Media, p. 339-358 (Lecture Notes in Computer Science, Vol. 16981 LNCS).

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Cloud-Native Orchestration of Agent-Based Simulations for Energy Systems Research

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Energy-Oriented Resource Dispatching Under Industrial Data Constraints: A Simulation-Based Evaluation in Foundry Production

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Ma, Z. G., Madsen, S. S., Staugaard, B. E. & Jørgensen, B. N., Oct 2026, In: Applied Sciences. 16, 19, 30 p., 9436.

Ecosystem Intelligence: Viability, Agency, and Transformation in Complex Ecosystems

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