

## Teaching Portfolio

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### Pedagogical view and educational practice

In my teaching, I strive to develop a sense of curiosity and critical thinking by linking fundamental physical concepts to relevant applications students can relate to. For all topics or concepts, I always evaluate options/methods/practices through the sustainability lens: how does it impact environmental sustainability and human lives? The reality is rarely black or white, so I encourage discussion, critical thinking and alternative perspectives in order to identify the benefits and drawbacks of the learning objectives.

I believe that Informing students about the current limits of knowledge and hot spot research areas help them to develop a reasoned perspective of current and alternative engineering practices. As a concept is usually always better remembered when one has the chance to reflect on a problem and identify the solution on its own, I strive to engage students in their learning as much as possible through a variety of projects and teaching activities.

In particular, I am an enthusiast proponent of research-based teaching activities. Engaging students in teaching activities at the forefront of research contributes to increase their perceived relevance of an activity and their motivation while generating valuable contributions to research. I developed interactive research-based teaching activities using web app's and online databases in the field of Indoor Environmental Quality that were appreciated by students and generated valuable data and information for the general public and professionals which can support more informed design decision for constructing sustainable and healthy buildings.

### Teaching experience

#### Life Cycle Assessment of Buildings

Diane Bastien & Morten Birkved  
01/09/2019 → ...

#### Passive Solar Design and Daylighting

Diane Bastien & Nebojša Jakica  
04/02/2019 → ...

#### Sustainable Buildings

Diane Bastien  
01/09/2017 → 27/01/2018

#### Sustainable Materials in Product Creation

Lykke Margot Ricard, Sofie Bach Hybel, Søren Buchholtz Storm, Raphael Geiger, Yasser Ahmad Hannan, Diane Bastien & Morten Madsen  
01/02/2020 → 30/06/2020

2019	B11: Environmental psychology. Teaching assistant, 5 ECTS, SDU
2013	BLDG 366: Acoustics and Lighting. Teaching assistant, 3 credits, Concordia University
2011-2013	BLDG 6731 Building Illumination. Marker and occasional lecturer, 3 credits, Concordia University
2007-2008	Physics. Main instructor, Curé-Antoine Labelle High School

## **Formal pedagogical training**

2018-2019	Lecturer Training program, 10 ECTS, SDU.
2019	Public speaking and presentation skills training, 1 ECTS, SDU
2018	Interactive learning, 0.5 ECTS, SDU
2018	Setting up your course in Blackboard, 0.5 ECTS, SDU
2013	Workshop on Successful Habits for Hi-tech Professionals & Entrepreneurs – A Silicon Valley Perspective, from the Pivotry Consulting Group. One-day workshop, Toronto, Canada.

## **Other activities related to teaching and teaching development**

### **Student supervision**

#### **Bachelor thesis (30 ECTS)**

2018	Moisture Transport in a Hygroscopic and Permeable Building Envelope: A Comparison of Experimental and Simulation Results of Det Naturlige Hus
2018	Life Cycle Assessment Comparison Between det Naturlige Hus (the Natural House) and a Conventional Danish House
2018	Development of a Greenlandic Residential Sustainable Index

#### **Individual study (5 ECTS)**

2018	Bæredygtigt byggeri og damptætte huse (Sustainability of buildings and the use of vapour barriers)
2018	Prototyper – Fugt og temperaturloggere (Development of a relative humidity/temperature monitoring system prototype)