

Teaching Portfolio

Experience with teaching, supervision and examination

I started to teach at the University of Hong Kong as a Ph.D. student and teaching assistant for one full semester in Biostatistics. Since then, I have been teaching courses related to my research fields of Biology and Environmental Sciences at different international institutes.

Instructor: Department of Biology, University of Southern Denmark

- BB551 Toxicology (10 ECTS) and exam, Spring 2021, 2022, 2023, 2024
- KE507 Environmental Chemistry (5 ECTS), Fall, 2021
- BB524 Toxicology B (5 ECTS) Spring 2020
- KE507 Environmental Chemistry (5 ECTS), Fall, 2020

Teaching Assistant: The Department of Zoology, University of Johannesburg, South Africa

- Marine ecology field course March-April 2012

Teaching Assistant: School of Biological Sciences, The University of Hong Kong

- BIOL2102 Biostatistics Sep-Dec 2011

Teaching Assistant: School of Biological Sciences, The University of Hong Kong

- BIOL3305 Marine ecology field course October 2011

I have also supervised and mentored 18 undergraduates, master students, and PhD students in individual research projects, mainly on micro-nanoplastic, animal toxicity tests, cell-based bioassays, and bioinformatics.

- 5 Ph.D students, SDU, 2021-current
- 6 Master student, SDU, 2021-current
- 7 Bachelor projects, SDU, 2021-now

Teaching methods, materials and tools

I have devoted to preparing myself for every class to make sure that I knew the subject matter well and the laboratory would run smoothly according to the teaching plan. I always tried to apply my own research studies to help students to understand that formulating a experimental test is to solve a real scientific problem that is beyond the textbooks. With good communication skills and a variety teaching tools such as slides, videos, hand drawing, animations, and laboratory exercises, I could explain the difficult scientific concepts, tests, and procedures in a very clear manner.

My teaching and mentoring duties have also included providing one-on-one tutorials for experimental designs, setups for in vitro and in vivo bioassays, statistical analysis of data, method development, providing feedback on abstracts and presentations for students to attend conferences, and revising students' scientific reports and articles.

Reflections on my own teaching practice and future development including student evaluations

My previous roles as a teaching assistant, guest lecturer, and mentor have been positive. These teaching roles, coupled with my undergraduate, graduate and postdoctoral experiences in which I was a student have formed my teaching philosophy, to create a stimulating environment for students to explore further beyond the walls of the classroom. My goal as a teacher is to help students to apply knowledge of biology, environmental sciences together with the skills of statistics, computing, and risk assessment to solve real environmental problems and gain an appreciation for the field of Natural Resources and the Environment. I will strive to incorporate my enthusiasm for science and my teaching beliefs into daily routines and teaching plans to become a better teacher at SDU.

Priser

World's Top 2% Scientists

Xu, E. G. (Modtager), 2024

2023 Undervisningsprisen på Naturvidenskab

Xu, E. G. (Modtager), 2023

Excellent Editorial Board Member Award

Xu, E. G. (Modtager), 2023

