

Bioacoustics: insect mechanical sensitivity and pest control

Gruppe: Lydkommunikation og Dyreadfærd

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(Sæt et kryds (X) ud for)

Bachelor: X **Speciale:** **Individuel Studieaktivitet:** X

Practical projects for studying insect bioacoustics in Japan

Many insects use sound and vibration for intra- or interspecific communication. For instance, some moths produce ultrasounds during courtships to enhance mating success. However, little is known about how pest insects use vibrations and sounds and about the potential for pest control with vibrations and sounds.

Biology students at SDU are invited to participate in research experiments on bioacoustics in horticultural pests and moths at the Forestry and Forest Products Research Institute (FFPRI) (Tsukuba) in Japan. Based on findings of mechanical sensitivity in the pests, a pest control method will be developed for environmentally friendly alternatives to pesticides. The candidate students who have scholarships and a travel grant will work for a period of two to four months under the supervision of Dr. Takuma Takanashi, Chief Researcher at FFPRI. For further details, please contact Dr. Takuma Takanashi at takanasi@affrc.go.jp.

This may be an opportunity for you to carry out a part of your bachelor project or master's thesis. You will need to have a supervisor from SDU. You are also welcome to contact my collaborator Niels Skals, Market Manager at Orbicon, at niels.skals@gmail.com.