

MSc Project Opportunity

Does artificial night light colour affect plant volatiles and does this impact insect pollinators?

Background: Light pollution caused by Artificial Light at Night (ALAN) raises numerous ecological issues. In this MSc project you are exploring how the spectral composition ("light color") of artificial night light influences plant chemistry and plant-insect interactions. Our objective is to determine how LED color alters diurnal and nocturnal phytochemistry and how these changes affect plant-insect interactions.

Start: Early 2027

Duration: 6 month-1 year

Contact :

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The Project: Combining fieldwork with climate chamber experiments, you will examine LED color effects on volatile and/or non-volatile plant chemistry and its consequences for pollinators and/or different herbivore feeding guilds. By addressing this knowledge gap, your research will support the development of optimized, sustainable outdoor lighting strategies. The study will be conducted in late spring/summer 2027. You should have a strong interest in plant-insect interactions and laboratory work. Basic skills in statistics with R are advantageous.

