Plant diversity in settlements of Bavaria, promise or bluff? (Bachelor / Master Thesis)

Background: The richness of flowering plant species tends to be higher in urbanized areas. However, whether or not this translates into increased habitat and resource offer for, e.g., arthropods depends on various factors such as landscape and site conditions, the status of the species (native vs. neophytes), or the variability of traits relevant for higher trophic layers. Based on plant species recorded in the LandKlif project, questions on urban plant diversity can be answered.

Methods:
*   Data management of plant recorded between 2019 and 2020.
*   Collection of further information on recorded plants from databases and other secondary sources.
*   Analyses of the relationship between urban plant diversity and coarse and fine landscape composition and structure.
*   Potential linkages with, e.g., insect data are also possible (data available).

Start: Flexible, from March 2024 on

Requirements:

*   You enjoy working with data and digging out databases and other sources.
*   Basic knowledge of botany and functional ecology is advantageous.
*   Interest in urban ecology
*   Experience in working with GIS tools and data analyses in R is highly welcomed.
*   Willingness to produce a scientific paper out of the thesis project.

Please send an e-mail with your background (CV) and a short statement of motivation for being involved in this project.

Dr. Sandra Rojas-Botero
Sandra.rojas-botero@tum.de