

Registration

Please register for this workshop until the 8.11.2024 via Email to anna.stoeckl@uni-konstanz.de

Attendance is free of charge. The number of slots is limited, and will be distributed based on the date of registration.

Organization

The workshop is organised by Dr. Anna Stöckl. She is a Junior Professor of Neuroethology at the University of Konstanz, and a member of the Junges Kolleg since 2020.

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BAdW

Plant-Pollinator Interactions

WORKSHOP

19/11/24–
20/11/24

**BAVARIAN ACADEMY OF SCIENCES
AND HUMANITIES**

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**Junges
Kolleg**

BAYERISCHE
AKADEMIE
DER
WISSENSCHAFTEN

Plant-Pollinator Interactions

One of the most fascinating interactions in the natural world exists between flowering plants and insects, which mutually benefit from each other: while the plants provide nutrition, the insects provide pollinating services. In order to attract insects, many plants use their flowers as billboards of sensory stimuli, which are thought to have co-evolved with the pollinator's abilities to detect and their preferences to select these flower features. Yet, the delicate interplay between insects and plants is endangered by man-made changes to the environment, including climate change, but also the introduction of neophytes and ornamental flowers into the insect's natural habitats. Thus, understanding the natural interactions from both a plant's and an insect's point of view is all the more important to gauge how flexible, or vulnerable, these interactions are. This workshop brings together researchers studying insect-plant interactions from multiple different angles, to share research insights, methodologies, and identify common questions that are best answered in a multidisciplinary approach.

Programme

TUESDAY, 19 NOVEMBER 2024

- 13.00 **Welcome and Introduction**
- 13.15 **Pollinator-driven evolution of plants**
PHILIPP SCHLÜTER
(University of Hohenheim)
- 13.45 **Flower gloss – effects on pollinator foraging**
ALEXANDER DIETZ
(University of Würzburg)
- 14.45 **How nutrients of resources influence
Pollinator-Plant-Interaction**
FABIAN RUEDENAUER
(Technical University of Munich)
- 15.15 **Coffee**

- 15.45 **Insect pollination and climate change**
PAULA PRUCKER
(Technical University of Munich)
- 16.15 **Using Citizen Science to study pollinator-plant
interaction**
ALEXANDER WIRTH
(Naturgucker eG)
- 16.45 **Joint Discussion**

WEDNESDAY, 20 NOVEMBER 2024

- 9.00 **Floral pattern vision in the hummingbird
hawkmoth**
ANUPAMA NAYAK MANEL
(University of Konstanz)
- 9.30 **Benefits and pitfalls of colour vision models in
flower-visiting insects**
JOHANNES SPAETHE
(University of Würzburg)
- 10.00 **Visuo-motor strategies of pattern inspection in a
pollinating hawkmoth**
LOCHLAN WALSH
(University of Konstanz)
- 10.30 **Coffee**
- 11.00 **Quantifying flower features through insect eyes**
ANNA STÖCKL
(University of Konstanz)
- 11.30 **Final Discussion**