

Future Plans

Choice Experiment in Wild Pollinators

- Compare artificial flowers to pan traps and coloured paper (vellow, blue, and white).
- Record insect visits with a camera.
- Count the number of insect visitors to each attractant.

Specialised, Complex Artificial Flower Systems

- · Design flower specialised to different insect groups.
 - Include the attraction cues found in the literature review. guides,
 - Colour, UV, scent, nectar
 - temperature, humidity, electric field
- · Test out efficacy using automated monitoring stations such as INSECT DETECT(1).
- Perform experiments in UK and abroad with Project Wallacea.

Database of Artificial Flower Systems

NSECT DETEC

- · Create database of different flower designs that can be 3D printed.
- Choose designs based on shape, colour, complexity.
- Include instructions on how to construct the flower systems.
- Publish as open access for anyone to use.





ees forag

Choice Experiment in Naïve Bumblebees

Artificial flowers have not yet been compared to other non-lethal attractants. It is important to measure whether pollinators will prefer a flower shape over a pan trap or UV paper when every attractant is yellow and UV reflective. This will set up a basis for whether artificial flowers are more efficient at attracting pollinators. It is hypothesised that naïve bumblebees will prefer the artificial flowers (by visiting them first when presented with a choice within the experimental flight chamber) and/or spend more

Background



the flight arena

- Designed flowers using ZBrush software and 3D printed with a resin printer.
- Acclimated bumblebees to the flight arena using simple feeders.
- Comparing my artificial flower to a pan trap and coloured paper.
- Recorded which attractant the bumblebee landed on.

Results

Bee Number	Did Not land	Flower	Pan Trap	Paper
B6	0	1	1	0
B7	0	3	0	0
B8	0	2	0	0
B10	0	4	0	0
B13	0	1	0	0



hot from video data of trial whe