



or



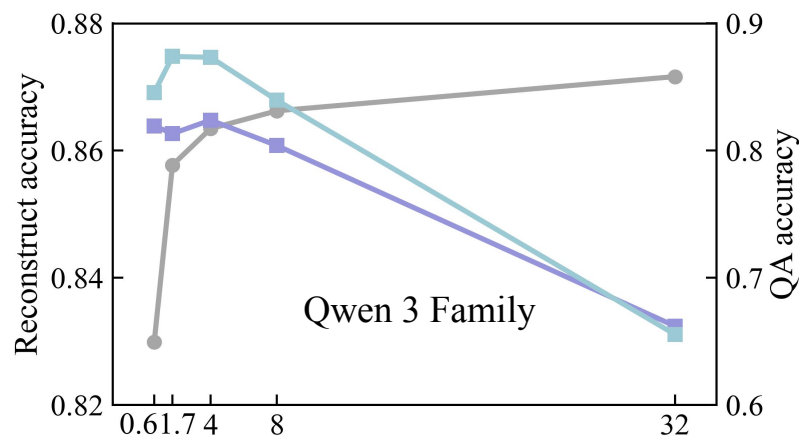
?

### Original text:

The Australian blue-banded bee (*Amegilla cingulata*) uses a unique technique called buzz pollination, where the bee vibrates its flight muscles to shake pollen loose from flowers.

### Lite Compressor Reconstruction:

The blue-banded bee from Australia (*Amegilla cingulata*) employs a distinctive method known as buzz pollination, in which the bee vibrates its wing muscles to dislodge pollen from the flowers.



### Large Compressor Reconstruction:

The Australian honey bee (*Amegilla cingulata*) uses a unique technique called buzz pollination, where the flower vibrates its anthers to shake pollen loose onto bees.

Q1: What type of bee is *Amegilla cingulata*?

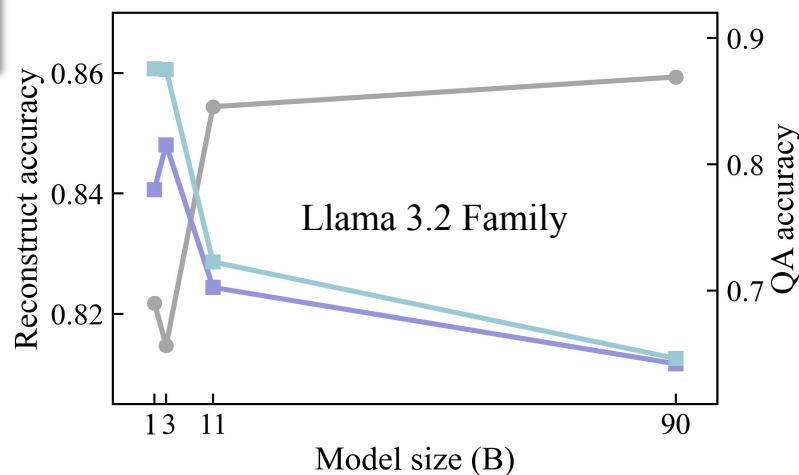
**Gold Answer:** blue-banded bee

**Lite Compressor:** blue-banded bee ✓

**Large Compressor:** honey bee ✗

### Knowledge Overwriting

- Non-semantic error
- Knowledge Overwriting
- Semantic Drift



Q2: What vibrates to release pollen?

**Gold Answer:** the bee

**Lite Compressor:** the bee ✓

**Large Compressor:** the flower ✗

### Semantic Drift

- Reconstruction
- QA of Knowledge Overwriting
- QA of Semantic Drift

The Size↑-Fidelity↓ Paradox