R Class Project Research

*Bees and Pollination*

**Wild bees enhance honey bees’ pollination of hybrid sunflower**

Summary: behavioral interactions between wild and honey bees increase the pollination efficiency of honey bees on hybrid sunflower up to 5-fold, effectively doubling honey bee pollination services on the average field.

Link: <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC1564230/?tool=pmcentrez&report=abstract>

**Flower plantings increase wild bee abundance and the pollination services provided to a pollination‐dependent crop**

Summary: wildflower abundance increases abundance of wild pollinators. This contributes to greater yield in sites adjacent to wild flowers.

Link: <https://besjournals-onlinelibrary-wiley-com.myaccess.library.utoronto.ca/doi/full/10.1111/1365-2664.12257>

**Landscape and local site variables differentially influence pollinators and pollination services in urban agricultural sites**

Summary: urban features and their effects on pollination in urban zones

[**https://journals.plos.org/plosone/article?id=10.1371/journal.pone.0212034**](https://journals.plos.org/plosone/article?id=10.1371/journal.pone.0212034)

*Data Analysis*

**Clustering Analysis Algorithm**

Summary: Provides code for analyzing pollination using clusters. It is an optimization formula and is bee-specific.

Link: <https://journals-scholarsportal-info.myaccess.library.utoronto.ca/details/00200190/v116i0001/1_fpawbpfca.xml>

**Data Sets**

Pollination Potential of Crops

Link: <https://data.europa.eu/euodp/en/data/dataset/db057b11-6707-4a27-be31-187b1e2e8f92>

**Research Ideas/Questions**

Does flower abundance increase pollination traffic?

**Organization**

How should we organize github?

What will be the main branch?