

- **Title:** Multimodal Interaction Methods for Manipulating Spreadsheet Data
- **One-sentence introduction:** Our prototype is a reimagination of spreadsheet interaction where multimodal interactions are incorporated to simplify the tasks that would otherwise require several steps using the mouse and the pointer.
- **A short abstract:** Conventional WIMP spreadsheet user interfaces involve multi-step processes to accomplish seemingly simple operations like sorting a column and thus hinder early data exploration and analysis. The prototype presented will incorporate a multimodal interaction model that will integrate multimodal inputs to allow the user to perform the same functions more intuitively and effectively. This method provides a way to speed up data work without compromising approachability and flexibility through the reduction of cognitive and operational load, and natural, human-centered interaction speed.
- **One representative visual:**

