**Literature review map**

Plan out your research with this helpful literature review map, apply these strategies to your own work by filling out your answers to the questions below.

**Themes**What central themes have you identified in the field of research?

**Research chronology**

Show how the research field has developed over time.

Interactive visualisations and how they impact cognition.

Visualisations and how they impact cognition.

Development of Bayesian learning theories (suggest people use prior information actively to inform future actions and decisions).

Impact of data prediction through interactive visualisations on Bayesian learning.

**Debates and disagreements**

Interactive visualisations do not help learning

Bayesian learning is not possible through data prediction

Interactive visualisations help learning

Bayesian learning is possible through data prediction

What are the main debates and disagreements in this field of research?

Methodology

Asking participants to predict data on graph

Multiple test trials

Methodology

Methodology

**The Problem**

nnkvb

Showing real data after participants have predicted

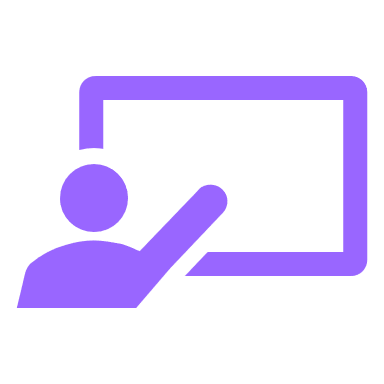
Asking similar questions in cycles of tasks

Methodology

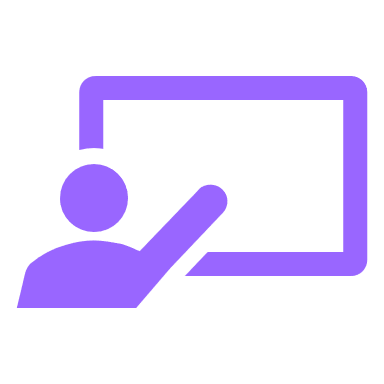
Aisch – Did the first ever data prediction task in New York Times.

Who are the key researchers in the field? What was their major contribution?

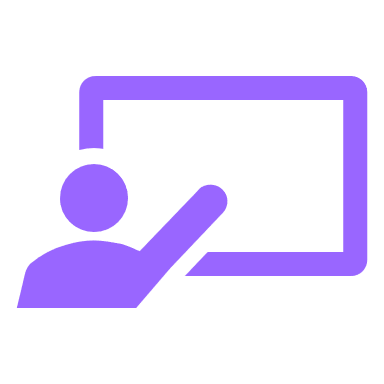
**Key researchers**



Heyer et al. – First to ask quantitatively and qualitatively about feelings after viewing real data.



Kim et al. – One of the first researchers to prove that visualizing interactively can help recall and learning.



What gaps or weaknesses are there in the research field?

**Gaps in the research**

Data prediction is very new, so there is not much data on it.

Difference between Bayesian reasoning and Bayesian learning – used interchangeably in research literature.

Not many studies use multiple trials to see if there is an effect of predicting data.