

```
In [4]: import pandas as pd
import numpy as np
import altair as alt

from collections import OrderedDict
```

```
In [29]: def generate_beadplot(data_csv):
    data = pd.read_csv(data_csv)

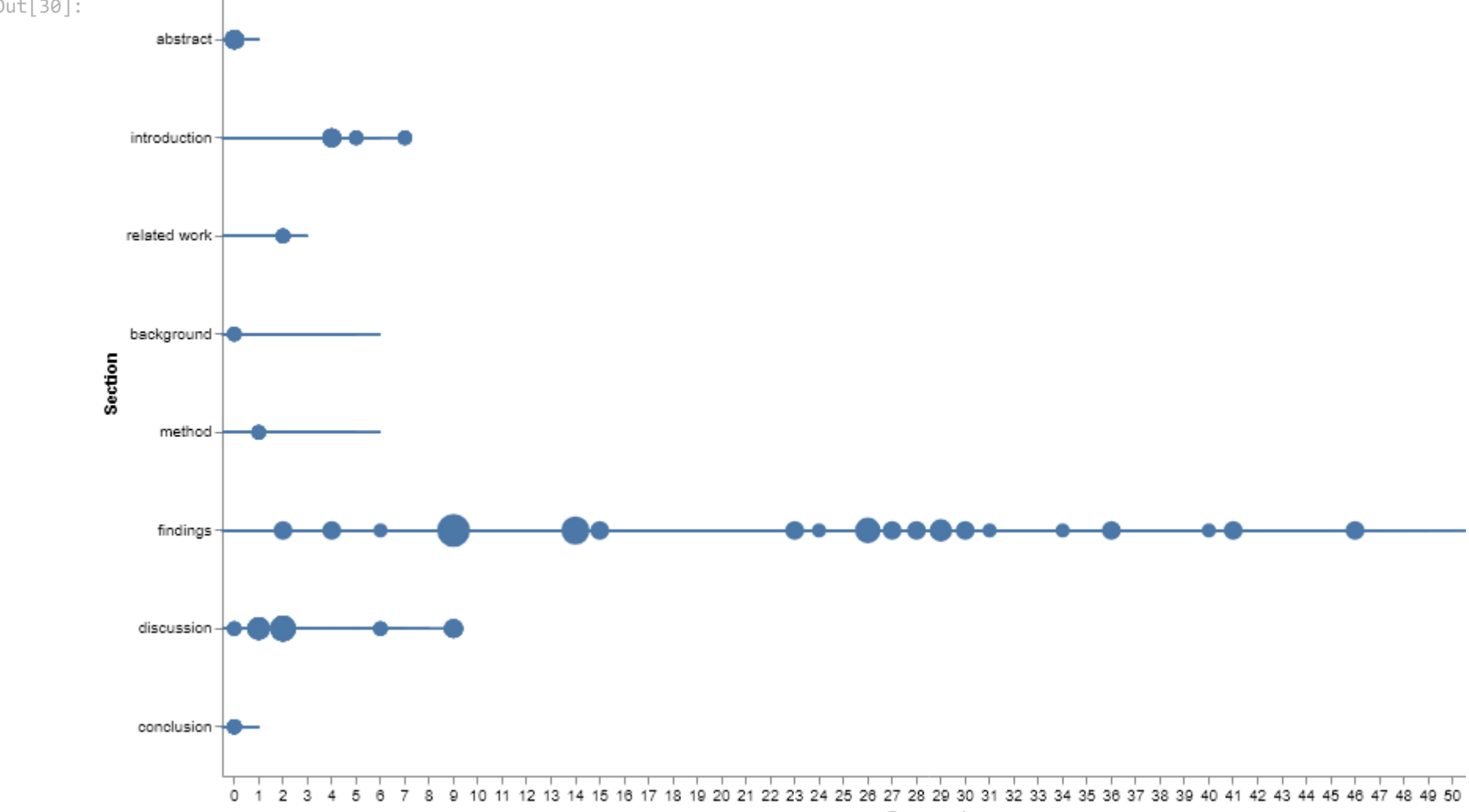
    # First generate base graph
    base = alt.Chart(data).mark_circle(opacity=1, stroke='#4c78a8').encode(
        x=alt.X('Paragraph:N', axis=alt.Axis(labelAngle=0)),
        y=alt.Y('Section:N', sort=list(OrderedDict.fromkeys(data['Section']))),
        size=alt.Size('algo_score_raw:Q', title="Number of Matches"),
    ).properties(
        width=900,
        height=500
    )

    # Next generate the overlying graph with the lines
    lines = alt.Chart(data).mark_rule(stroke='#4c78a8').encode(
        x=alt.X('Paragraph:N', axis=alt.Axis(labelAngle=0)),
        y=alt.Y('Section:N', sort=list(OrderedDict.fromkeys(data['Section']))))
    ).properties(
        width=900,
        height=500
    )
    if max(data['algo_score_raw']) == 0:
        return lines # no beads if no matches
    else:
        return base + lines
```

Women in HCI India Paper

Keywords: marriage, matrimony, married_couple, marriage_ceremony, wedlock, wedding, man_and_wife, spousal relationship, union

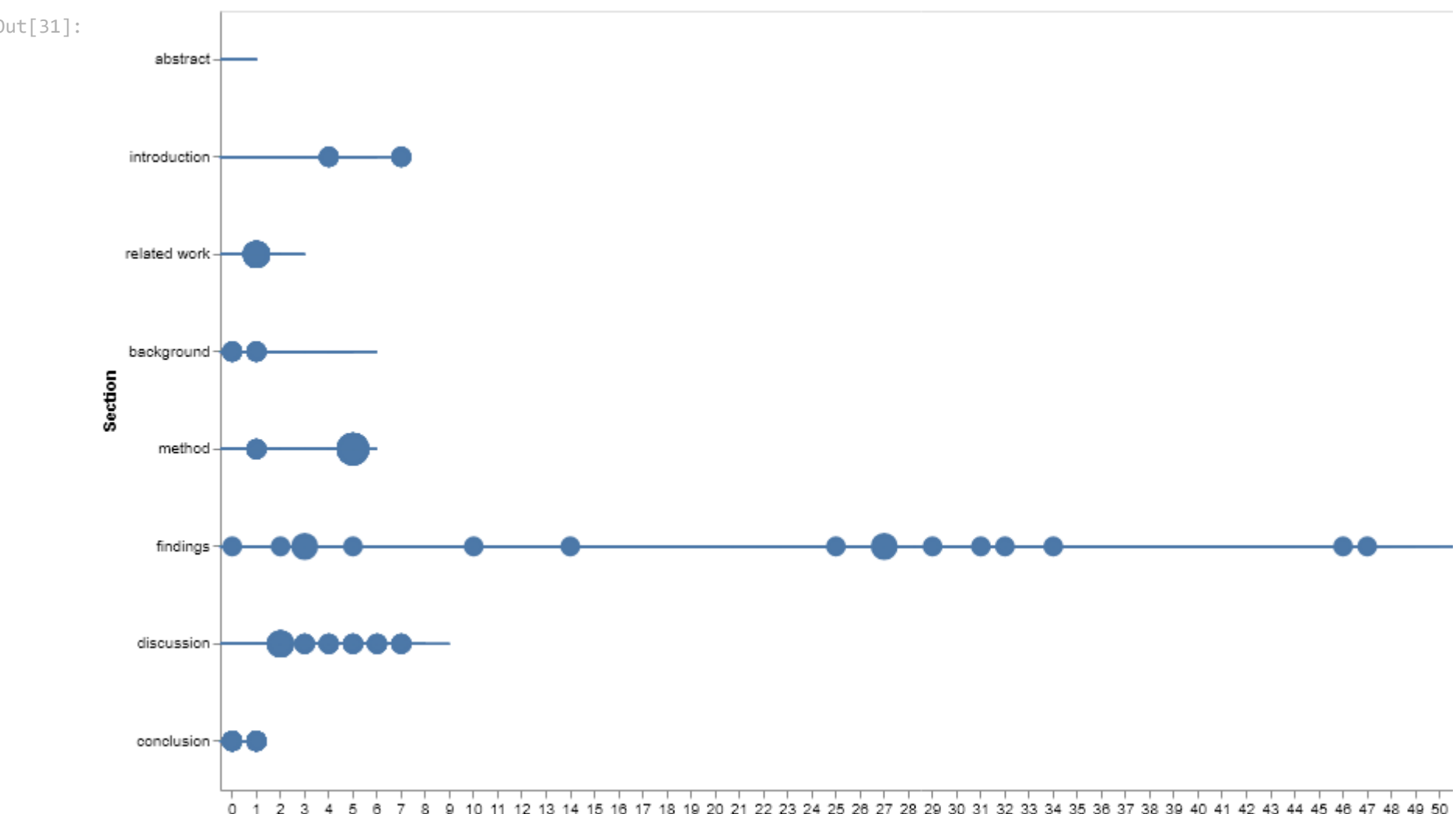
```
In [30]: generate_beadplot('./output/women_computing_india-marriage-matrimony-married_couple-marriage_ceremony-wedlock-v
```



Women in HCI India Paper

Keywords: education, pedagogy, instruction, teaching, educational_activity

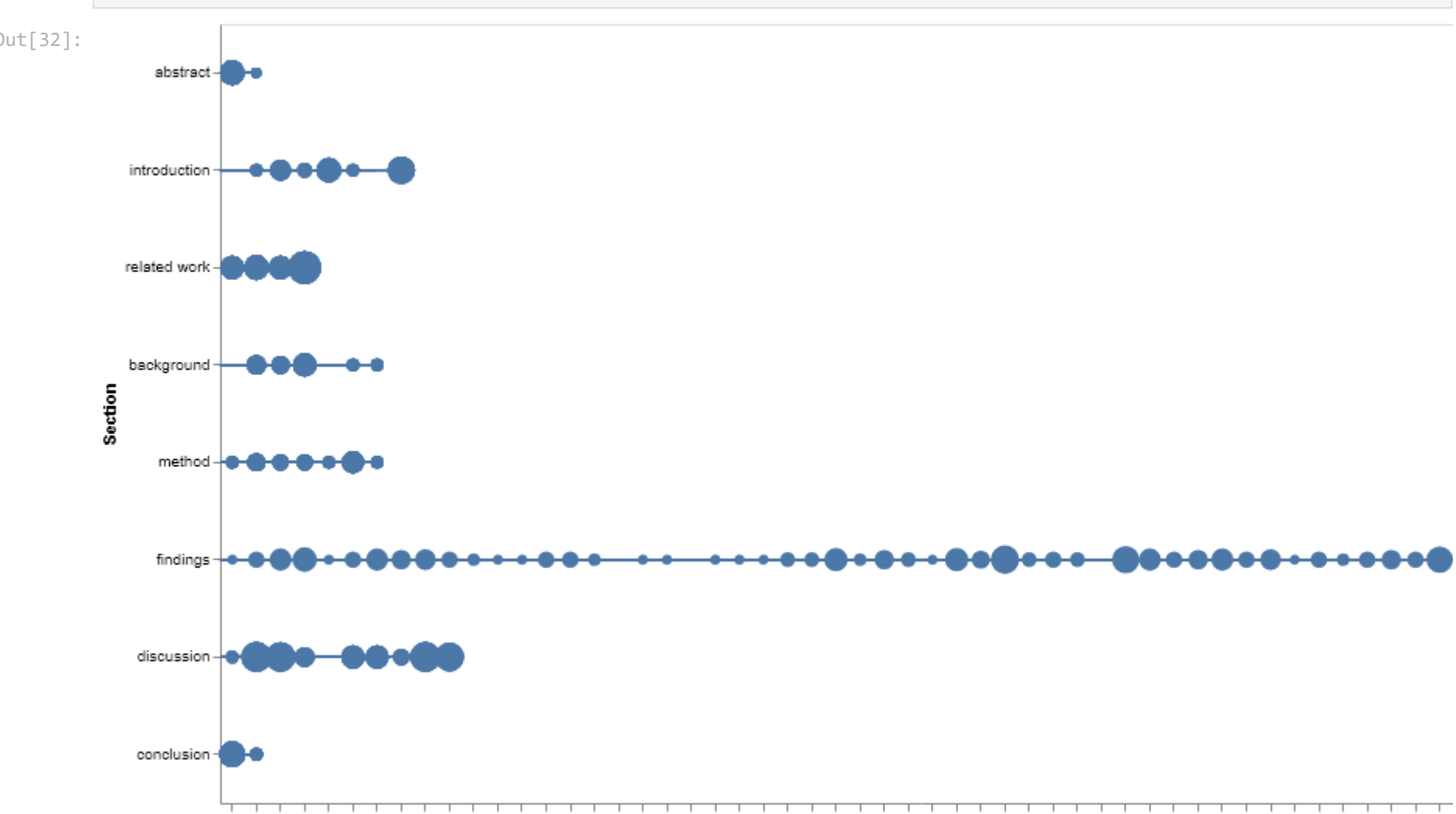
```
In [31]: generate_beadplot('./output/women_computing_india-education-pedagogy-instruction-teaching-educational_activity,
```



Women in HCI India Paper

Keywords: gender, sex

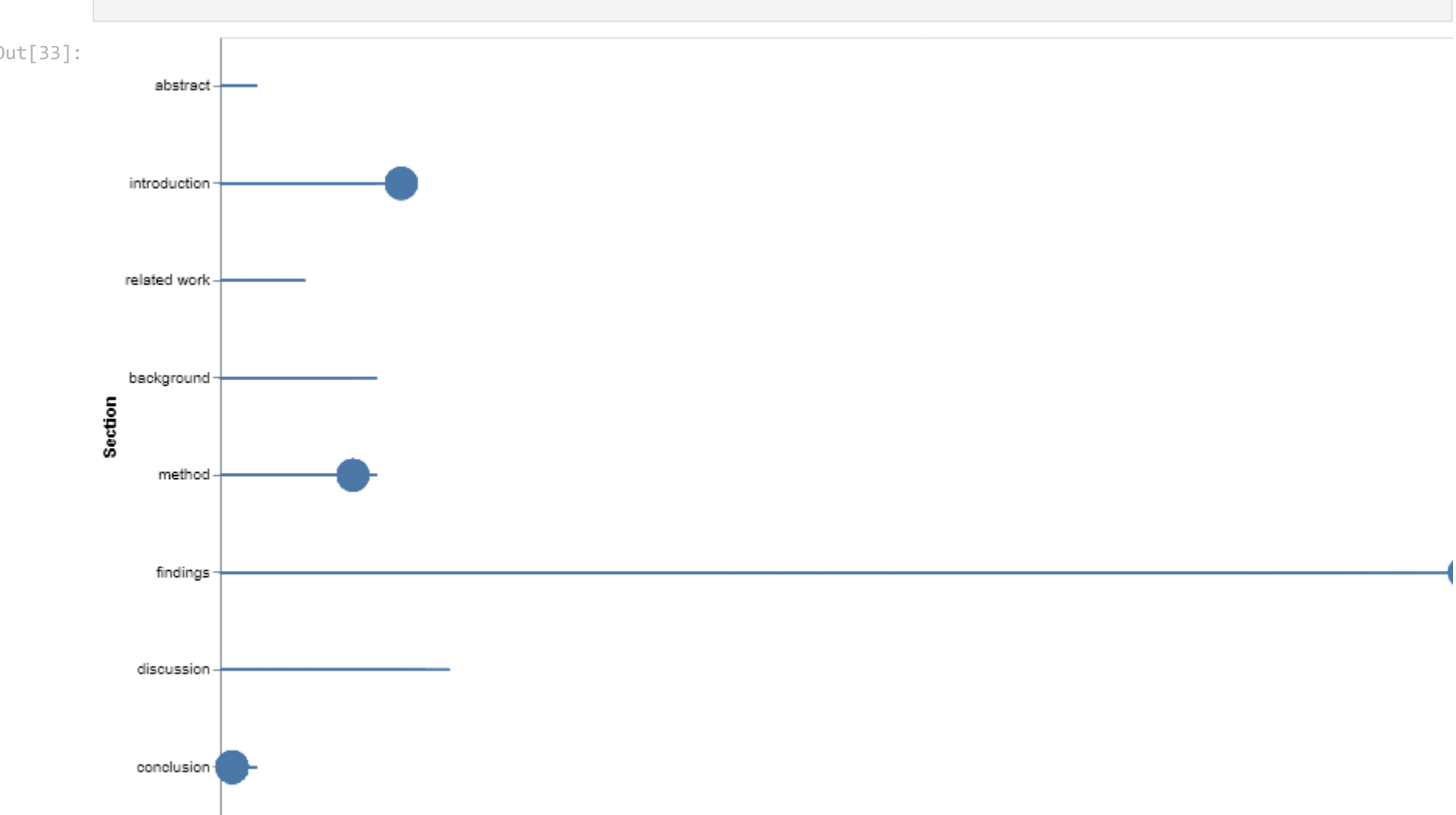
```
In [32]: generate_beadplot('./output/women_computing_india-gender-sex.csv')
```



Women in HCI India Paper

Keywords: gender discrimination, gender favoritism, sex discrimination, sex favoritism

```
In [33]: generate_beadplot('./output/women_computing_india-gender discrimination-gender favoritism-sex discrimination-se
```



Women in HCI India Paper

Keywords: pursue computer science, pursue computer skill, quest_for_computer science, follow computer science, go_after computer science, follow computer skill

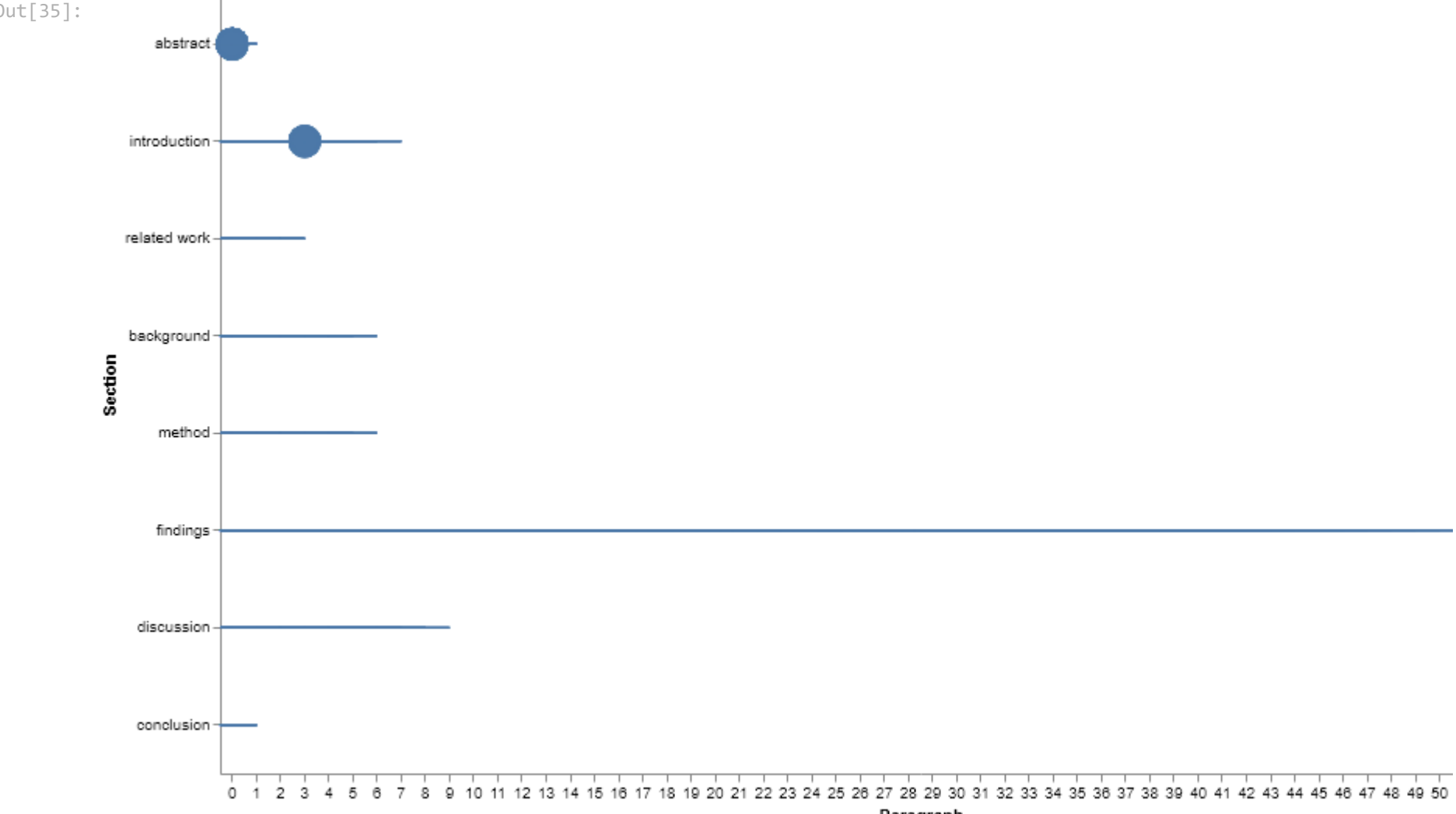
```
In [34]: generate_beadplot('./output/women_computing_india-pursue computer science-pursue computer skill-quest_for compu
```



Women in HCI India Paper

Keywords: human computer interaction, human computer fundamental_interaction, human_being computer interaction, man computer interaction

```
In [35]: generate_beadplot('./output/women_computing_india-human computer interaction-human computer fundamental_interac
```



In []: