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 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-warriage-matrimony-married\_couple-marriage\_ceremony-wedlock-warriage-matrimony-married\_couple-marriage\_ceremony-wedlock-warriage-matrimony-married\_couple-marriage\_ceremony-wedlock-warriage-matrimony-married\_couple-marriage\_ceremony-wedlock-warriage-matrimony-married\_couple-marriage\_ceremony-wedlock-warriage-matrimony-married\_couple-marriage\_ceremony-wedlock-warriage-matrimony-married\_couple-marriage\_ceremony-wedlock-warriage-matrimony-married\_couple-marriage\_ceremony-wedlock-warriage-matrimony-married\_couple-marriage\_ceremony-wedlock-warriage-matrimony-married\_couple-marriage\_ceremony-wedlock-warriage-matrimony-matrix-m Out[30]: abstractrelated work background Section method findings discussionconclusion + 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 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 Out[31]: abstract introduction related work background Section method conclusion-0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 Women in HCI India Paper Keywords: gender, sex In [32]: generate beadplot('./output/women computing india-gender-sex.csv') Out[32]: abstractintroduction related work Section discussion conclusion 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 Paragraph 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 Out[33]: abstract introduction related work background Section method findings discussion conclusion 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 Paragraph 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 Out[34]: abstract introduction related work

findings

discussion

interaction

findings

discussion

conclusion

Section method

conclusion 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 Paragraph Women in HCI India Paper

In [35]: generate\_beadplot('./output/women\_computing\_india-human computer interaction-human computer fundamental\_interaction-human computer

Keywords: human computer interaction, human computer fundamental\_interaction, human\_being computer interaction, man computer

Out[35]: abstract introduction related work background Section

4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50

Paragraph

In [ ]: