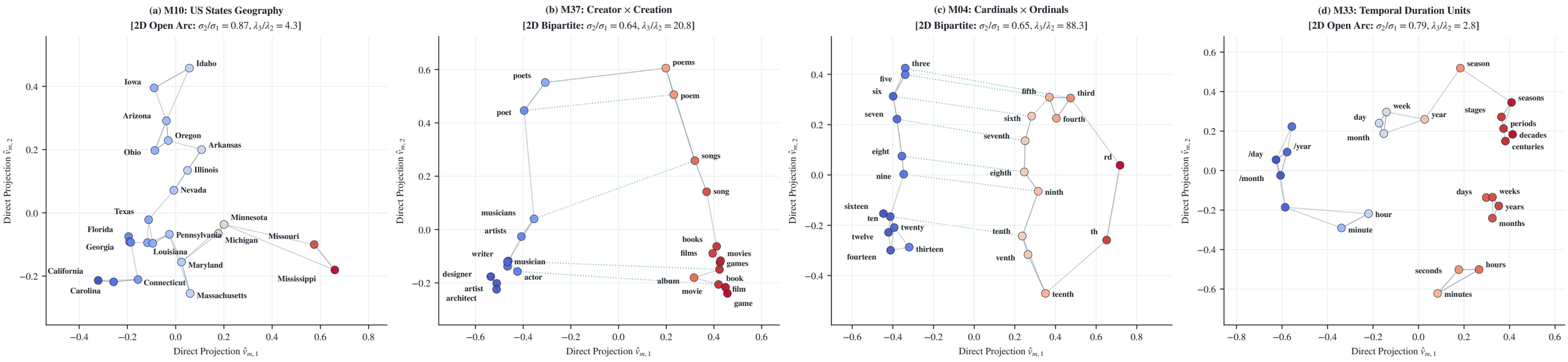

(a) M10: US States Geography
[2D Open Arc: $\sigma_2/\sigma_1 = 0.87$, $\lambda_3/\lambda_2 = 4.3$]
Idaho
Iowa
Arizona
Oregon
Arkansas
Ohio
Illinois
Nevada
Texas
Minnesota
Florida
Pennsylvania
Michigan
Missouri
Georgia
Louisiana
Maryland
California
Mississippi
Connecticut
Carolina
Massachusetts
(b) M37: Creator × Creation
[2D Bipartite: $\sigma_2/\sigma_1 = 0.64$, $\lambda_3/\lambda_2 = 20.8$]
poems
poets
poem
poet
songs
song
musicians
artists
books
films
movies
games
writer
musician
designer
actor
album
book
artist
architect
movie
film
game
(c) M04: Cardinals × Ordinals
[2D Bipartite: $\sigma_2/\sigma_1 = 0.65$, $\lambda_3/\lambda_2 = 88.3$]
three
five
six
fifth
third
seven
sixth
fourth
seventh
eight
rd
nine
eighth
ninth
sixteen
ten
twenty
tenth
th
twelve
thirteen
fourteen
venth
teenth
(d) M33: Temporal Duration Units
[2D Open Arc: $\sigma_2/\sigma_1 = 0.79$, $\lambda_3/\lambda_2 = 2.8$]
season
seasons
week
stages
day
year
periods
month
decades
centuries
/day
/year
/month
days
weeks
hour
years
minute
months
seconds
hours
minutes
Direct Projection $\hat{v}_{m,1}$
Direct Projection $\hat{v}_{m,2}$