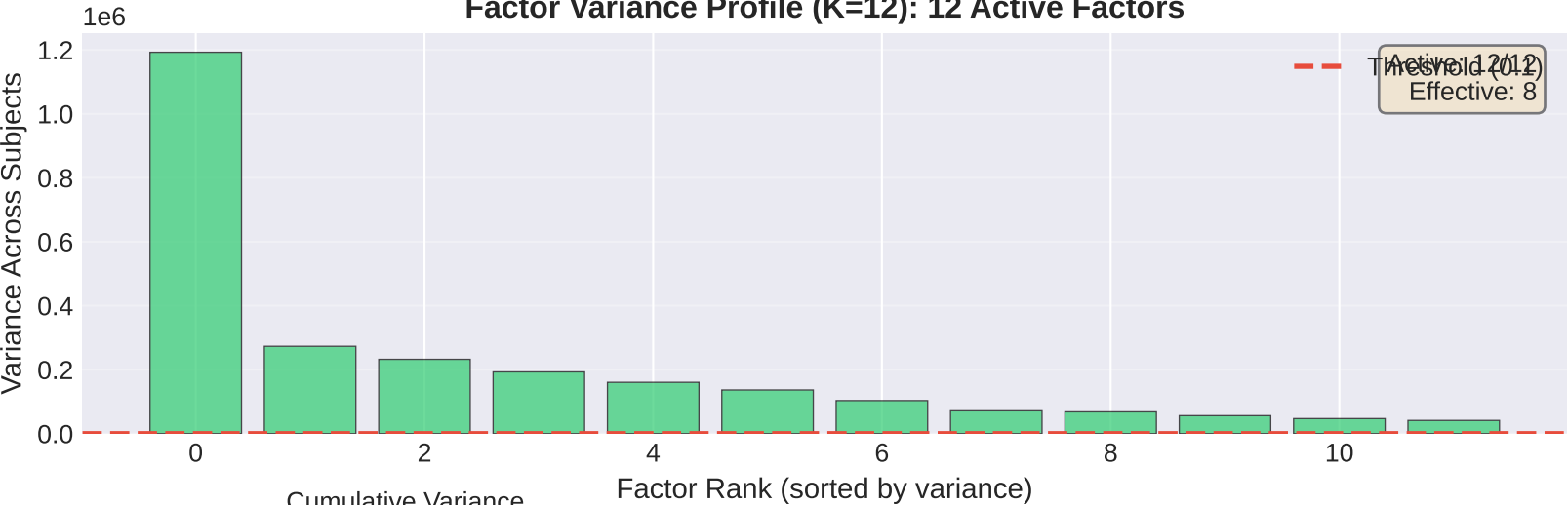
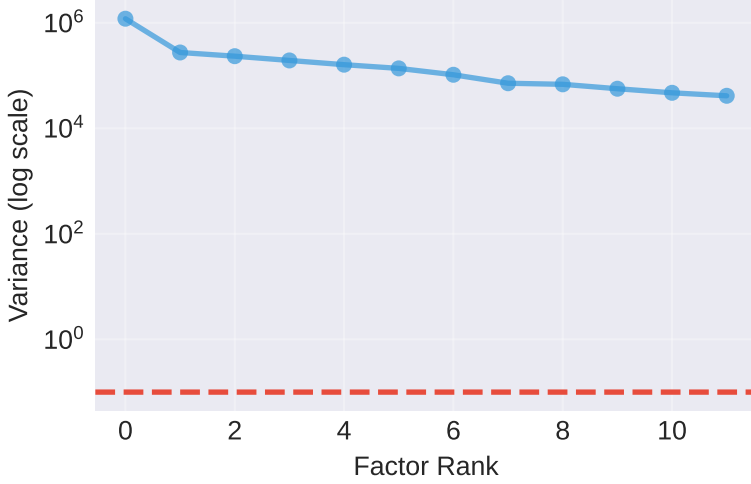


Factor Variance Analysis: ARD Shrinkage Assessment (K=12)

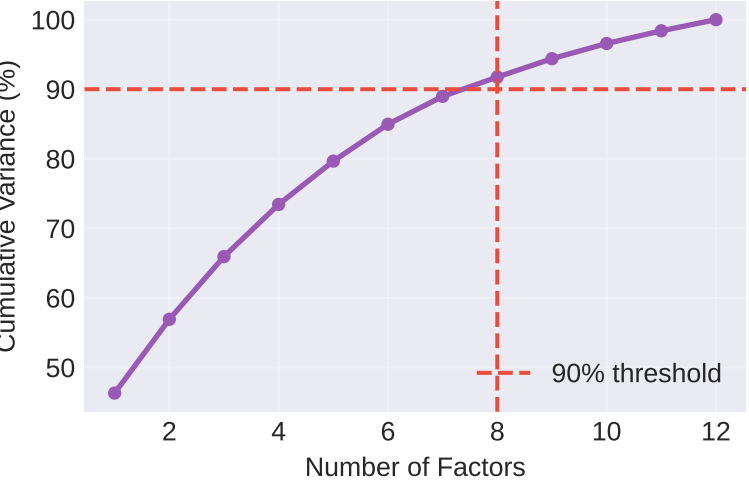
Factor Variance Profile (K=12): 12 Active Factors



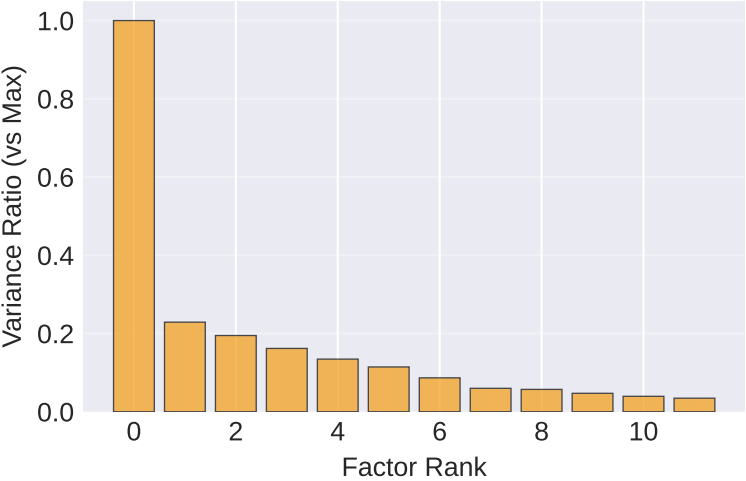
Log-Scale Variance
(Sharp drop = good ARD)



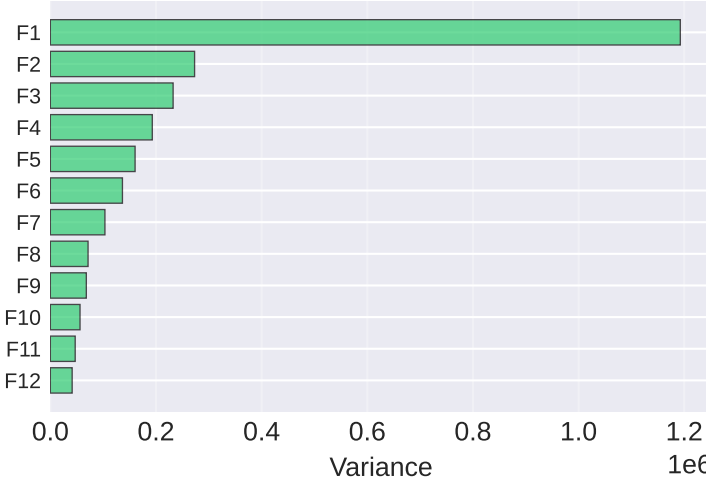
Cumulative Variance
(90% @ 8 factors)



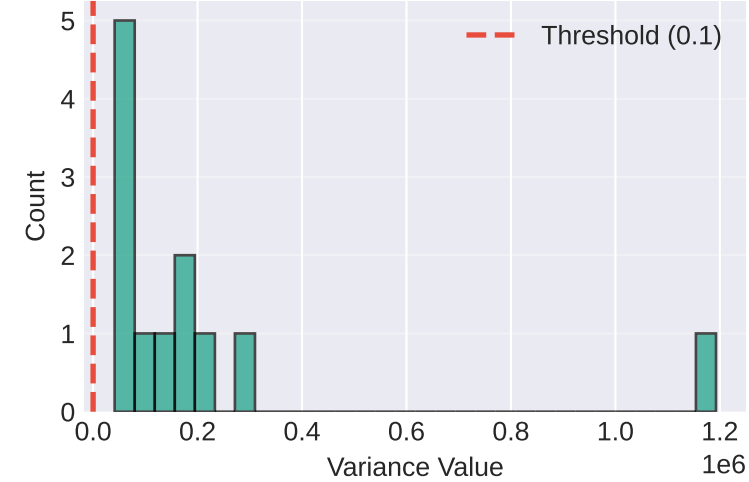
Normalized Variance Profile



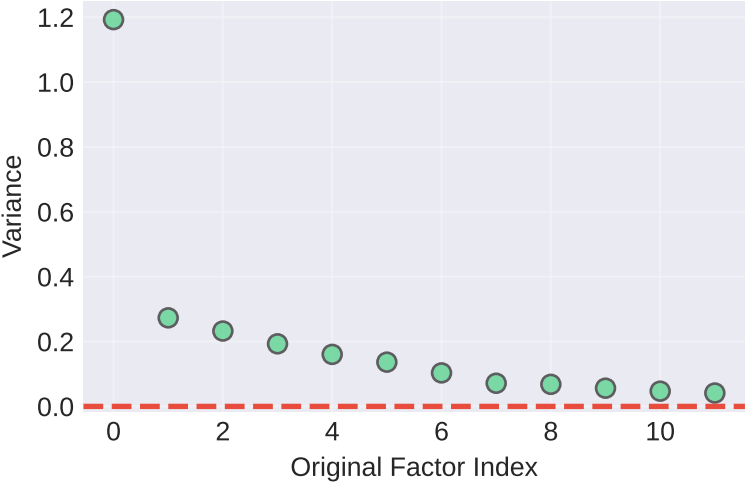
Top 12 Factors



Distribution of Factor Variances



Variance by Original Factor Order



VARIANCE PROFILE SUMMARY

Total Factors (K): 12
Active Factors: 12
Effective Dim (90%): 8

Max Variance: 1192553.1250
Mean Variance: 214589.9098
Median Variance: 119899.0820

Top 3 Variances:
#1: 1192553.1250
#2: 273051.5625
#3: 232394.1562

ARD Shrinkage: MODERATE Δ
Shrinkage Ratio: 5.48

INTERPRETATION:

Moderate shrinkage.
Model somewhat uncertain.
Check convergence.