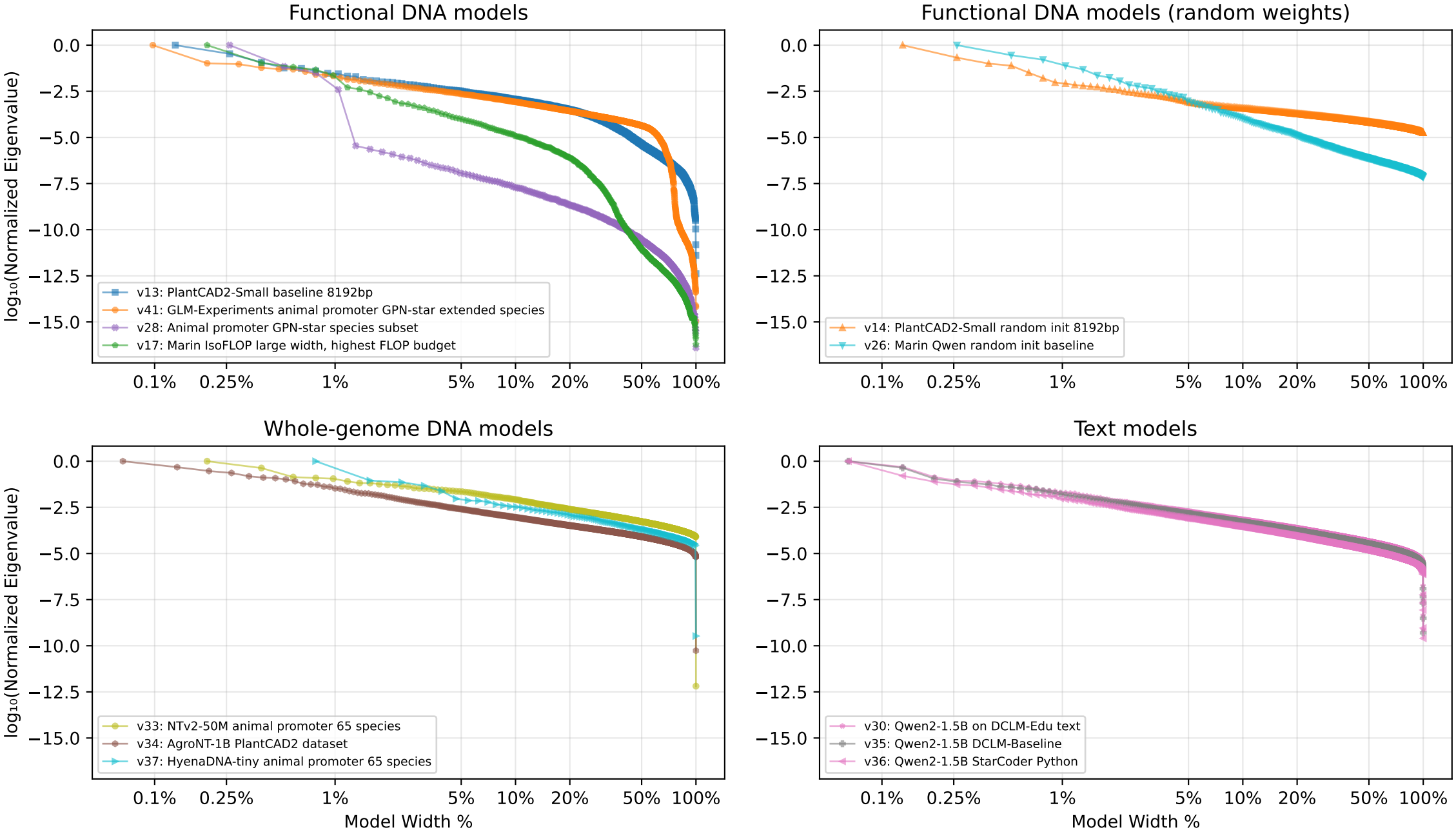
Functional DNA models
Functional DNA models (random weights)
Whole-genome DNA models
Text models
log₁₀(Normalized Eigenvalue)
0.0
−2.5
−5.0
−7.5
−10.0
−12.5
−15.0
0.1%
0.25%
1%
5%
10%
20%
50%
100%
Model Width %
v13: PlantCAD2-Small baseline 8192bp
v41: GLM-Experiments animal promoter GPN-star extended species
v28: Animal promoter GPN-star species subset
v17: Marin IsoFLOP large width, highest FLOP budget
v14: PlantCAD2-Small random init 8192bp
v26: Marin Qwen random init baseline
v33: NTv2-50M animal promoter 65 species
v34: AgroNT-1B PlantCAD2 dataset
v37: HyenaDNA-tiny animal promoter 65 species
v30: Qwen2-1.5B on DCLM-Edu text
v35: Qwen2-1.5B DCLM-Baseline
v36: Qwen2-1.5B StarCoder Python