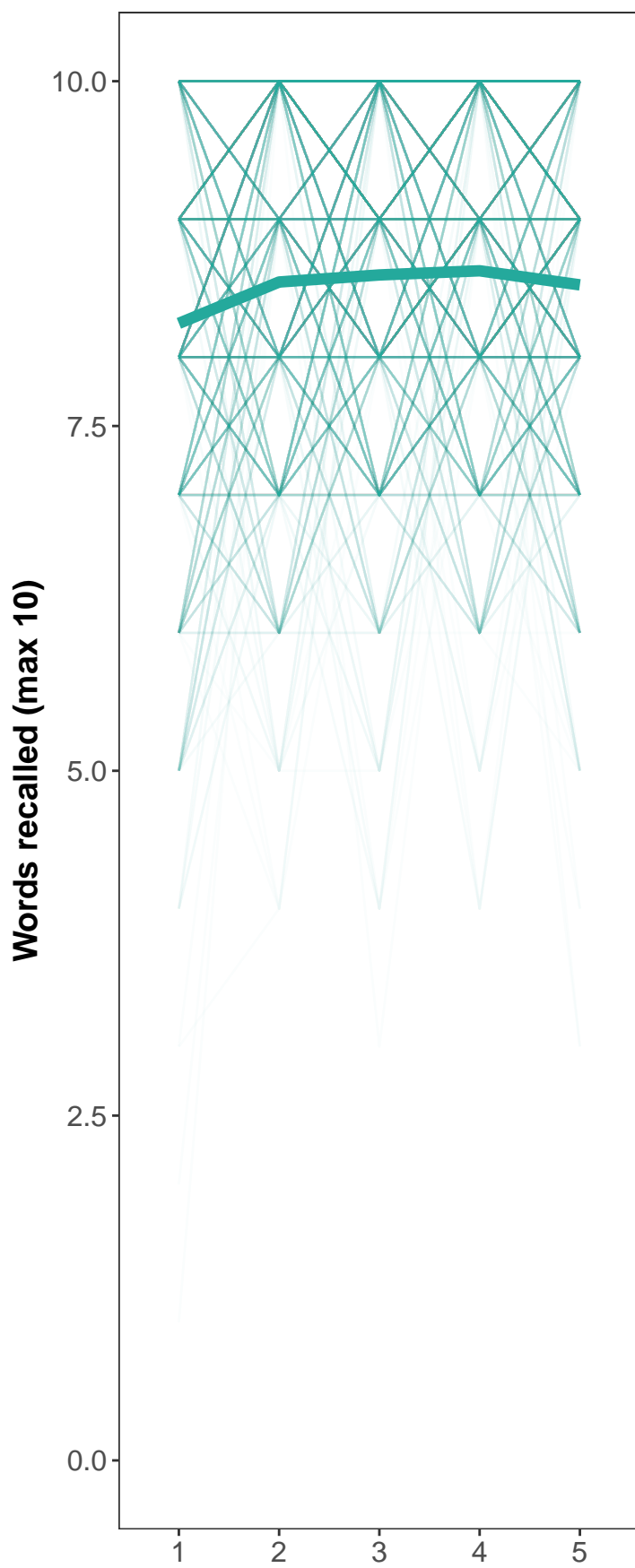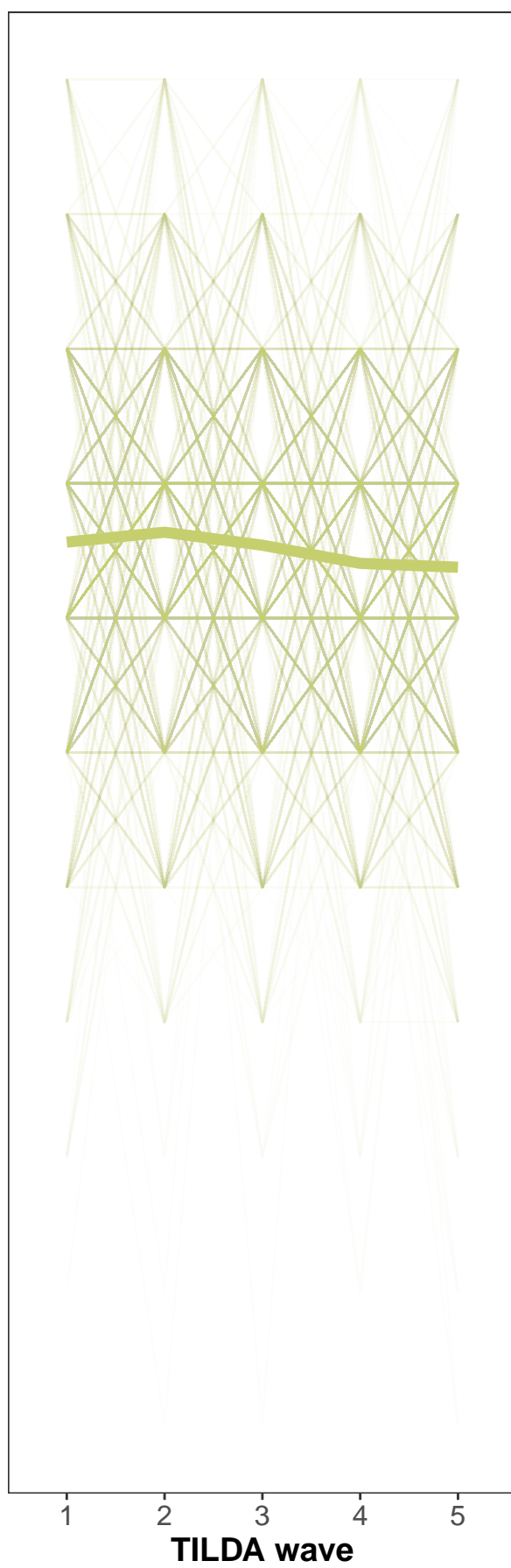Delayed recall clusters