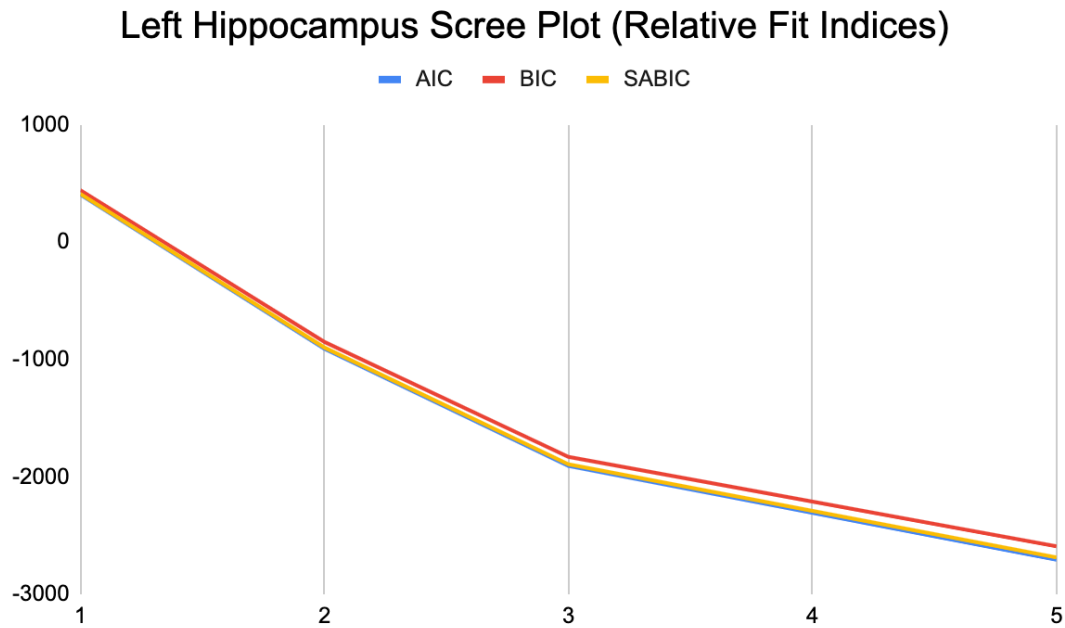


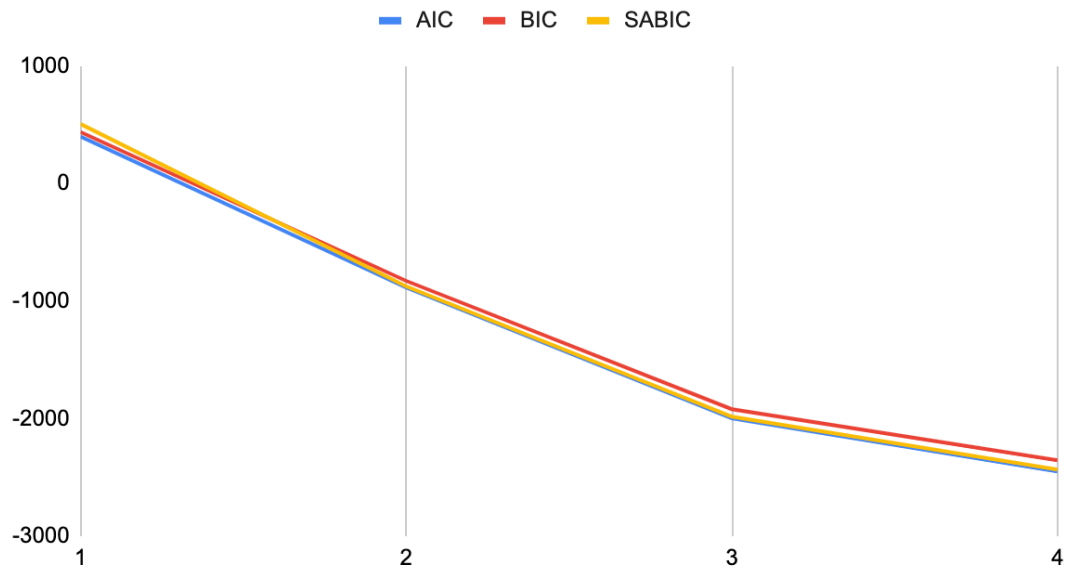
# Supplementary Material

## Data-Driven Analyses of Longitudinal Hippocampal Imaging Trajectories: Discrimination and Biomarker Prediction of Change Classes



**Supplementary Figure 1.** Scree plot for the AIC, BIC, and SABIC values across the tested 1-, 2-, 3-, 4-, and 5-class LCGA models for the LHC.

## Right Hippocampus Scree Plot (Relative Fit Indices)



**Supplementary Figure 2.** Scree plot for the AIC, BIC, and SABIC values across the tested 1-, 2-, 3-, and 4-class LCGA models for the RHC.

**Supplementary Table 1.** Mean (SD) Alzheimer’s Disease Assessment Scale-Cognition scores by wave and hippocampal trajectory class.

	<b>Lowest LHC Class</b>	<b>Highest LHC Class</b>	<b>Lowest RHC Class</b>	<b>Highest RHC Class</b>
Wave 1, <i>Mean (SD)</i>	9.04 (4.49)	8.39 (3.77)	9.03 (4.60)	8.66 (3.90)
Wave 2, <i>Mean (SD)</i>	8.63 (4.69)	7.54 (3.44)	8.83 (4.91)	7.98 (3.50)
Wave 3, <i>Mean (SD)</i>	8.82 (4.61)	7.07 (3.56)	8.94 (4.89)	7.96 (3.70)
Wave 4, <i>Mean (SD)</i>	9.57 (5.13)	7.27 (3.11)	9.82 (5.83)	8.28 (3.69)
Wave 5, <i>Mean (SD)</i>	11.02 (6.28)	7.48 (3.55)	10.81 (6.59)	8.27 (3.44)
Wave 6, <i>Mean (SD)</i>	9.88 (6.54)	7.22 (3.39)	9.93 (6.27)	8.46 (3.73)

**Supplementary Table 2.** Mean (SD) Memory Composite scores by wave and hippocampal trajectory class.

	<b>Lowest LHC Class</b>	<b>Highest LHC Class</b>	<b>Lowest RHC Class</b>	<b>Highest RHC Class</b>
Wave 1, <i>Mean (SD)</i>	1.21 (0.61)	1.16 (0.49)	1.10 (0.61)	1.10 (0.46)
Wave 2, <i>Mean (SD)</i>	1.10 (0.64)	1.26 (0.58)	1.10 (0.64)	1.17 (0.55)
Wave 3, <i>Mean (SD)</i>	1.05 (0.61)	1.26 (0.56)	1.02 (0.59)	1.14 (0.54)
Wave 4, <i>Mean (SD)</i>	1.02 (0.61)	1.30 (0.54)	0.99 (0.62)	1.14 (0.56)
Wave 5, <i>Mean (SD)</i>	0.83 (0.61)	1.31 (0.56)	0.92 (0.71)	1.12 (0.45)
Wave 6, <i>Mean (SD)</i>	0.73 (0.88)	1.31 (0.61)	0.98 (0.77)	1.16 (0.54)