Modeling Longitudinal Trajectories of Dementia Brain Changes



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BIOSTATISTICS SEMINAR

The 2010 hypothetical 'Jack' model attempts to describe the timeline with which different biomarkers change in AD and has sparked much discussion and subsequent research. Understanding this temporal ordering in AD and other forms of dementia has major implications for prediction and clinical trial design. The work presented here examines nonlinear mixed effects methods aimed at estimating normalized cognitive test scores for individuals that appropriately account for demographic and other factors. These normalized scores are subsequently used in an application that models the temporal path of brain biomarker changes (cognition, imaging and otherwise) in frontotemporal dementia; the goal being to determine potential differences in disease progression trajectories across genetic subtypes. This is collaborative work with the UCSF Memory and Aging Center along with the Berry Consultants group.

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133 Rosenau Hall

Zoom Link: https://unc.zoom.us/j/95131277245

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