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Advancing Dynamic Methods for Modeling Change Over Time

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- Evaluating ***change*** over time is one of the most interesting problems in behavioral sciences
- We present a set of cutting-edge advances in dynamic ***continuous-time*** modeling
- Show how to use them to answer relevant questions in various fields in psychology and education
- Each communication is related to a paper including:
  - Recommendations on how to design longitudinal studies
  - *R* code to apply the statistical models

1. Modeling overnight lags in daily emotion dynamics.
   Pablo F. Cáncer

2. Kalman scores for the estimation of planned and unplanned missing individual observations in accelerated longitudinal designs. **José A. Martínez-Huertas**

3. State-Space Models for Identifying Abrupt Changes in Cognitive Development. **Marcos Romero-Suárez**

4. When Should I Measure? Finding the Best Sampling Schedule for Recovering Longitudinal Dynamics in Panel Data Studies with Continuous-Time Models.
   Nuria Real-Brioso

Intensive longitudinal studies

Cognitive development studies

Panel studies