





Alignment, clocking, and macro patterns of episodes in the life course

Tim Riffe

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- sequence analysis of trajectories ending in death (pattern detection) (Y. Hu)
- matrix expression for average episode count (tenure statistics) (C. Dudel)

2 motivating questions:

- 1. would different patterns emerge if trajectories were aligned on moment of death rather than age?
- 2. what is the age pattern of average episode duration?

2 procedural solutions:

- 1. restructure wrt state transitions:
- 2. flexible episode recording:

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- 1. restructure wrt state transitions: alignment
- 2. flexible episode recording: clocking

- Take transition matrix from Dudel & Myrsklä (2017).
- Simulate 10k trajectories using rmarkovchain()
 in markovchain package (Spedicato, 2017).
- Demonstrate concepts of alignment and clocks
- Generate (stationary) novel macro patterns

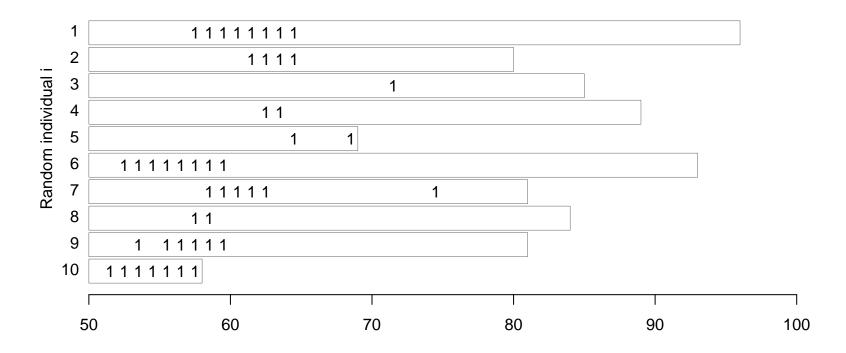
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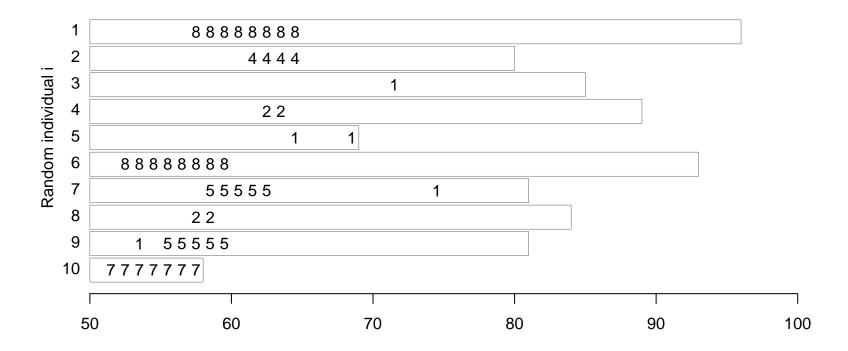
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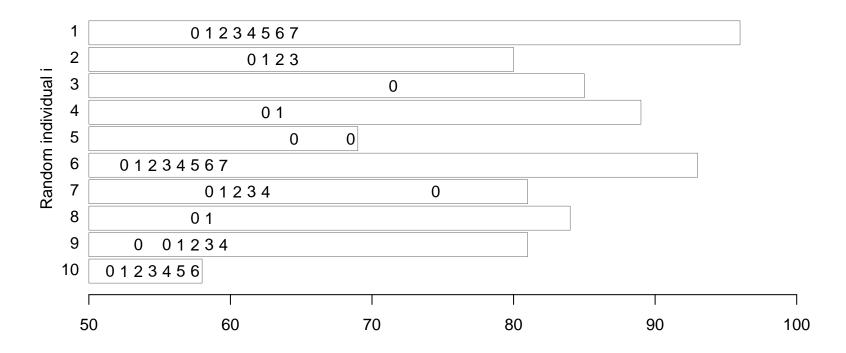
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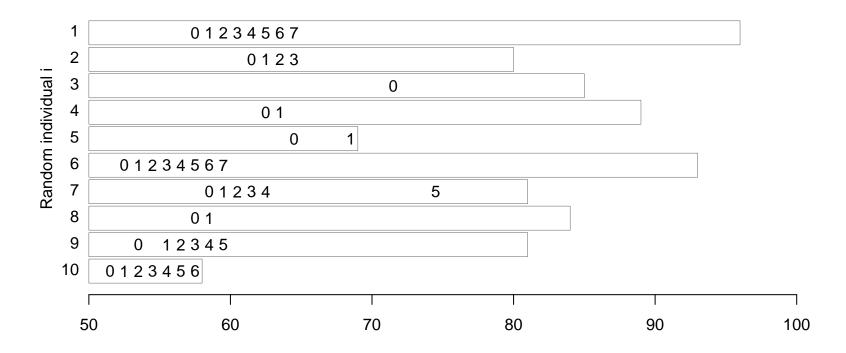
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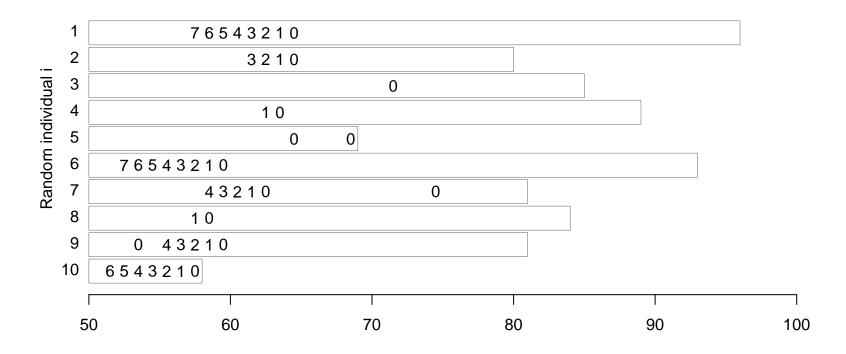


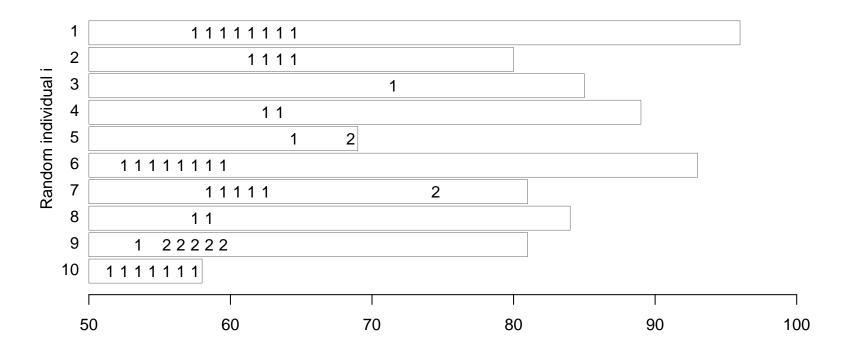


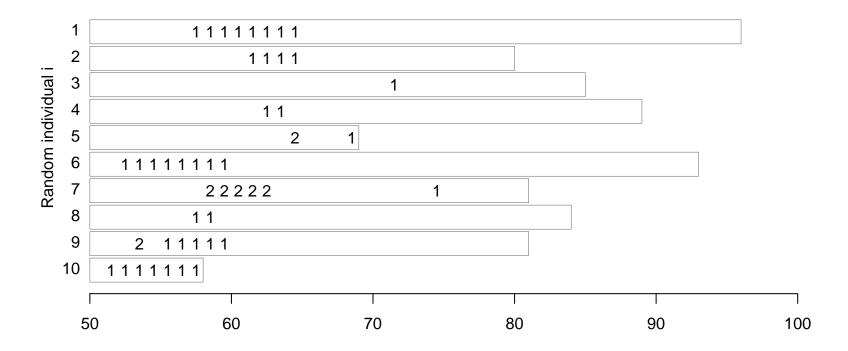












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Values that get averaged with respect to some structure.

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