# Introduction to Latent Transition Analysis:

## Dataset Used for Exercises

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The dataset provided with the exercises is called:

**NLS\_extract.dta.dat**

This is an extract of data from the NLSY79 Child Survey, see: <https://www.nlsinfo.org/content/cohorts/nlsy79-children/intro-to-the-sample/nlsy79-childyoung-adult-sample-introduction>.

This survey included children of the NLSY79 study female respondents. These children were assessed and interviewed every two years from 1986 through 2014. The assessments measure cognitive ability, temperament, motor and social development, behaviour problems, and self-competence of the children as well as the quality of their home environment.

In the extract from this dataset, I focused on reports of problem behaviour collected in 1986, 1988, and 1990, together with other participants’ characteristics and assessments.

The participants are N = 2,386 who had incomplete data on the problem behaviour reports in 1986 and 1988.

The main variables of interest in this extract are the following:

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| cpubid\_xrnd: The child ID in the study. |
| ranti86: behaviour problems index: antisocial raw score (1986) |
| ranx86: behaviour problems index: anxious/depressed categorical score (198) |
| rhypr86: behaviour problems index: hyperactive categorical score (1986) |
| rdep86: behaviour problems index: dependent categorical score (1986) |
| rpeer86: behaviour problems index: peer conflicts/withdrawn raw score (1986) |
| ranti88: behaviour problems index: antisocial categorical score (1988) |
| ranx88: behaviour problems index: anxious/depressed categorical score (1988) |
| rhypr88: behaviour problems index: hyperactive categorical score (1988) |
| rdep88: behaviour problems index: dependent categorical score (1988) |
| rpeer88: behaviour problems index: peer conflicts/withdrawn categorical score (1988) |
| male: A dummy variable to indicate whether the child was reported of being male rather than other |
| bla\_his: A dummy variable to indicate whether the child ethnicity was indicated as being Black or Hispanic, rather than other. |
| csage86: A variable indicate the child’s age in 1986 (in years) |
| ppvtz1990: Peabody picture vocabulary test-revised form l (ppvt): total standard score |

The scores of variables **ranti86** to **rpeer88** were recoded from the original raw scores to obtain categorical scores ranging from 0 to 2, indicating low, moderate, or high level of problem behaviour respectively.