

| Study                          |              |                 | Sample   |                        |              |                               | ToM                                                                 |                                                                                |                                                  |                          | AA            |                                                           |                           |                        | Covariates                                                                                                              |  |
|--------------------------------|--------------|-----------------|----------|------------------------|--------------|-------------------------------|---------------------------------------------------------------------|--------------------------------------------------------------------------------|--------------------------------------------------|--------------------------|---------------|-----------------------------------------------------------|---------------------------|------------------------|-------------------------------------------------------------------------------------------------------------------------|--|
| Reference                      | Study design | Direction       | N        | Mean Age               | Boys %       | Region                        | Category (level, MS category; stimuli type; response modality)      | Task/Measure                                                                   | Age appropriateness: POMP in the reliable range? | Reliability (in L at T1) | AA domain     | Math components                                           | AA reporter/source        | Covariates             | Component                                                                                                               |  |
| Atkinson et al., 2017          | L            | ToM --> AA      |          | 80 3.80                | 0.51         | Europe                        | Basic; Cognitive; Verbal; Open                                      | False Belief                                                                   | yes                                              | /                        | RC            | /                                                         | /                         | VA<br>EF<br>NVA<br>SES | Composite (receptive and expressive vocabulary)<br>Composite (WM; shifting)<br>Non-verbal reasoning<br>Mother education |  |
| Bernier et al., 2022           | L            | ToM --> AA      |          | 109 4.07               | 0.47         | North America                 | Basic; Perception; Visual; Forced                                   | Visual Perspective-Taking                                                      | yes                                              | /                        | M<br>AP       | Problem solving                                           | Child<br>Child            | VA<br>EF<br>SES        | General parental report<br>Effortful control<br>General family socio-economic status                                    |  |
| Bianco & Lecce, 2016           | C            | /               |          | 72 8.68                | 0.50         | Europe                        | Advanced; Mixed; Verbal; Open                                       | Strange Stories                                                                | yes                                              | /                        | RC            | /                                                         | Child                     | VA<br>EF<br>SES        | Receptive vocabulary<br>Planning; WM<br>General family socio-economic status                                            |  |
| Bianco et al., 2018            | C            | /               |          | 49 7.60                | 0.36         | Europe                        | Advanced; Mixed; Verbal; Open<br>Advanced; Mixed; Visual; Open      | Strange Stories<br>Animated Triangles                                          | yes<br>/                                         | /                        | RC            | /                                                         | Child                     | VA<br>EF<br>SES        | Receptive vocabulary<br>Inhibition; shifting; WM<br>General family socio-economic status                                |  |
| Blankson et al., 2017          | L            | ToM --> AA      |          | 227 NA<br>(range: 3-5) | 0.48         | North America                 | Basic; Cognitive; Verbal; Open<br>Basic; Perception; Visual; Forced | False Belief<br>Visual Perspective-Taking                                      | yes                                              | 0.5 (composite)          | M<br>AP       | Problem solving                                           | Child<br>Teacher          | EF<br>SES              | Composite (WM; inhibition)<br>/                                                                                         |  |
| Boerma et al., 2017            | C            | /               |          | 117 9.45               | 0.51         | Europe                        | Advanced; Mixed; Verbal; Open                                       | Strange Stories                                                                | yes                                              | 0.6                      | RC            | /                                                         | Child                     | VA<br>SES              | Expressive vocabulary<br>Parental education                                                                             |  |
| Boor-Klip et al., 2014         | C            | /               |          | 341 9.21               | 0.51         | Europe                        | Basic; Mixed; Verbal; Open                                          | Vignettes                                                                      | yes                                              | 0.68                     | AP            | /                                                         | Child                     | NVA                    | Matrix reasoning                                                                                                        |  |
| Cantin et al., 2016            | C            | /               |          | 93 9.00                | 0.48         | North America                 | Advanced; Mixed; Verbal; Open                                       | Strange Stories                                                                | yes                                              | /                        | RC<br>M       | Composite (numerical facts, problem solving, calculation) | Child                     | EF<br>NVA<br>SES       | Inhibition; shifting; WM<br>Matrix reasoning<br>Maternal education                                                      |  |
| Clemmensen et al., 2020        | L            | ToM --> AA      |          | 1170 11.58             | 0.45         | Europe                        | Advanced; Mixed; Verbal; Open                                       | Story book (False Belief; deception; white lie; irony; double bluff; faux pas) | yes                                              | /                        | M             | Composite (calculations, geometry, problem solving)       | Child                     | NVA<br>SES             | Non-verbal IQ battery<br>Maternal education                                                                             |  |
| Ebert, 2020a                   | L            | ToM --> AA      |          | 116 5.45               | -            | Europe                        | Basic; Cognitive; Verbal; Open                                      | False Belief                                                                   | yes                                              | /                        | RC            | /                                                         | Child                     | SES                    |                                                                                                                         |  |
| Ebert, 2020b                   | L            | ToM --> AA      |          | 231 5.50<br>12.60      | 0.54         | Europe                        | Basic; Cognitive; Verbal; Open<br>Advanced; Mixed; Verbal; Open     | False Belief<br>Strange Stories                                                | yes                                              | /<br>0.56                | RC            | /                                                         | Child                     | VA<br>SES              | Receptive vocabulary; grammar<br>Parental occupation                                                                    |  |
| Figueroa et al., 2020          | C            | /               |          | 54 13.50               | 0.41         | Europe                        | Basic; Cognitive; Verbal; Open<br>Advanced; Mixed; Verbal; Open     | False Belief<br>Faux Pas                                                       | yes                                              | /                        | RC            | /                                                         | Child                     | NVA                    | Non-verbal IQ battery                                                                                                   |  |
| Fletcher-Flinn & Snelson, 1991 | C            | /               |          | 88 5.05                | 0.27         | Oceania                       | Basic; Cognitive; Verbal; Open                                      | False Belief                                                                   | /                                                | /                        | AP            | /                                                         | Child                     | VA<br>NVA              | Receptive vocabulary<br>Non-verbal IQ battery                                                                           |  |
| Florin et al., 2020            | C            | /               |          | 184 10.17              | 0.45         | Europe                        | Advanced; Mixed; Verbal; Open                                       | Strange Stories                                                                | /                                                | 0.67                     | RC            | /                                                         | Child                     | VA                     | Expressive vocabulary                                                                                                   |  |
| Gilligan et al., 2018          | C            | /               |          | 155 7.5                | 0.50         | Europe                        | Basic; Perception; Visual; Forced                                   | Visual Perspective-Taking                                                      | /                                                | /                        | M             | Number sense                                              | Child                     | VA<br>NVA<br>SES       | Receptive vocabulary<br>Mental rotation<br>General family socio-economic status                                         |  |
| Guajardo et al., 2016          | C<br>L       | /<br>ToM --> AA |          | 31 8.08                | 0.39         | North America                 | Basic; Cognitive; Verbal; Open                                      | False Belief                                                                   | yes                                              | 0.84                     | RC            | /                                                         | Child                     | VA<br>EF<br>SES        | Receptive vocabulary<br>WM<br>Parental education and occupation                                                         |  |
| Honoré et al., 2020            | C            | /               |          | 239 5.75               | 0.51         | Europe                        | Basic; Mixed; Verbal; Open                                          | Battery (e.g., emotion recognition; False Belief)                              | yes                                              | /                        | M             | Number sense; calculation                                 | Child                     | EF<br>SES              | Attention; inhibition; flexibility<br>Maternal education and family monthly income                                      |  |
| Kim et al., 2015a              | C            | /               |          | 141 6.08               | 0.52         | Asia                          | Basic; Cognitive; Verbal; Open                                      | False Belief                                                                   | yes                                              | 0.72                     | RC            | /                                                         | Child                     | VA<br>EF               | Receptive vocabuary<br>WM                                                                                               |  |
| Kim et al., 2015b              | C<br>L       | /<br>AA --> ToM |          | 130 6.08<br>130 5.17   | 0.60<br>0.60 | Asia                          | Basic; Cognitive; Verbal; Open                                      | False Belief                                                                   | yes                                              | 0.72                     | RC            | /                                                         | Child                     | VA<br>EF               | Receptive vocabulary<br>WM                                                                                              |  |
| Kim, 2020                      | C            | /               |          | 165                    |              | North America                 | Basic; Cognitive; Verbal; Open                                      | False Belief                                                                   | yes                                              | 0.71                     | RC            | /                                                         | Child                     | VA<br>EF               | Expressive vocabulary<br>WM; attention                                                                                  |  |
|                                | L            | ToM --> AA      | 132 7.50 | 0.52                   | 0.81         |                               |                                                                     |                                                                                |                                                  | /                        |               |                                                           |                           |                        |                                                                                                                         |  |
|                                | L            | AA --> ToM      | 132      |                        |              |                               |                                                                     |                                                                                |                                                  | /                        |               |                                                           |                           |                        |                                                                                                                         |  |
| Kim & Graham, 2022             | C            | /               |          | 350 7.54               | 0.53         | North America                 | Basic; Cognitive; Verbal; Open                                      | False Belief                                                                   | yes                                              | 0.71                     | RC            | /                                                         | Child                     | VA<br>EF               | Expressive vocabulary; grammar<br>WM                                                                                    |  |
| Kim et al., 2021               | C            | /               |          | 529 7.42               | 0.53         | North America                 | Basic; Cognitive; Verbal; Open                                      | False Belief                                                                   | yes                                              | 0.79                     | RC            | /                                                         | Child                     | VA<br>EF               | Expressive vocabulary<br>WM                                                                                             |  |
| Kimhi et al., 2024             | C            | /               |          | 28 8.81                | 0.61         | Asia                          | Advanced; Mixed; Verbal; Open                                       | Faux Pas<br>Justification                                                      | /                                                | /                        | RC            | /                                                         |                           | EF<br>NVA              | WM; planning; inhibition; flexibility<br>Visuospatial ability                                                           |  |
| Kloo et al., 2022              | L            | ToM --> AA      |          | 112 5.10               | 0.54         | Europe                        | Basic; Cognitive; Verbal; Open<br>Advanced; Mixed; Verbal; Open     | False Belief<br>Strange Stories                                                | yes                                              | /                        | RC<br>M       | /                                                         | Child                     | VA<br>EF               | Composite (verbal IQ)<br>WM; inhibition                                                                                 |  |
| Lecce & Bianco, 2018           | C            | /               |          | 86 9.67                | 0.53         | Europe                        | Advanced; Mixed; Visual; Open                                       | Animated Triangles                                                             | yes                                              | /                        | RC            | /                                                         | Child                     | VA<br>EF<br>SES        | Receptive vocabulary<br>WM<br>General family socio-economic status                                                      |  |
| Lecce et al., 2014a            | C            | /               |          | 91 9.64                | 0.59         | Europe                        | Advanced; Mixed; Verbal; Open                                       | Strange Stories                                                                | yes                                              | /                        | RC            | /                                                         |                           | VA<br>EF<br>SES        | Receptive vocabulary<br>WM; planning<br>General family socio-economic status                                            |  |
| Lecce et al., 2021             | C            | /               |          | 157                    | 0.47         | Europe                        | Advanced; Mixed; Verbal; Open                                       | Strange Stories                                                                | yes                                              | /                        | RC<br>M       | /                                                         | Child                     | VA<br>EF<br>SES        | Receptive vocabulary<br>WM<br>Maternal education and occupation; general family socio-economic status                   |  |
|                                | L            | ToM --> AA      | 60 9.67  | 0.52                   | Europe       | Advanced; Mixed; Visual; Open | Animated Triangles                                                  |                                                                                |                                                  |                          |               |                                                           |                           |                        |                                                                                                                         |  |
|                                | L            | AA --> ToM      | 60       | 0.52                   | Europe       | Advanced; Mixed; Verbal; Open | Strange Stories                                                     |                                                                                |                                                  |                          |               |                                                           |                           |                        |                                                                                                                         |  |
| Lecce et al., 2011             | C            | /               |          | 60 7.50                | 0.60         | Europe                        | Basic; Mixed; Verbal; Open                                          | Battery (False Belief; emotion understanding)                                  | yes                                              | 0.70                     | AP            | /                                                         | Teacher                   | VA<br>SES              | Receptive vocabulary<br>Maternal education                                                                              |  |
|                                | L            | ToM --> AA      | 60 6.00  |                        |              |                               |                                                                     |                                                                                |                                                  |                          |               |                                                           |                           |                        |                                                                                                                         |  |
| Lecce et al., 2014b            | C            | /               |          | 49 6.06                | 0.59         | Europe                        | Advanced; Mixed; Verbal; Open                                       | Strange Stories                                                                | yes                                              | 0.67                     | AP            | /                                                         | Mixed (Teacher, Child)    | VA                     | Receptive vocabulary                                                                                                    |  |
|                                | L            | ToM --> AA      |          |                        |              |                               | Basic; Mixed; Verbal; Open                                          | Battery (False Belief; emotion understanding)                                  | no                                               | /                        |               |                                                           |                           |                        |                                                                                                                         |  |
| Lecce et al., 2017             | C<br>L       | /<br>ToM --> AA |          | 73 8.61<br>6.45        | 0.56         | Europe                        | Basic; Mixed; Verbal; Open                                          | Battery (False Belief; emotion understanding)                                  | yes                                              | /                        | RC<br>M<br>AP | Number sense                                              | Child<br>Child<br>Teacher | VA<br>SES              | Receptive vocabulary; receptive grammar<br>Maternal education                                                           |  |

|                                       |   |            |     |       |      |               |                                                                 |                                                                                                                                                                                                            |     |             |               |                                                             |                           |                        |                                                                                                                              |
|---------------------------------------|---|------------|-----|-------|------|---------------|-----------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-------------|---------------|-------------------------------------------------------------|---------------------------|------------------------|------------------------------------------------------------------------------------------------------------------------------|
| Lecce et al., 2009                    | C | /          | 57  | 7.52  | 0.54 | Europe        | Basic; Mixed; Verbal; Forced                                    | Battery (belief understanding; emotion understanding)                                                                                                                                                      | /   | 0.65        | AP            | /                                                           | Teacher                   | VA<br>SES              | Receptive vocabulary<br>Maternal education                                                                                   |
| Lecce et al., 2010                    | C | /          | 381 | 9.00  | 0.47 | Europe        | Advanced; Mixed; Verbal; Open                                   | Mental State Talk                                                                                                                                                                                          | /   |             | RC            | /                                                           | Child                     | VA                     | Receptive and expressive vocabulary                                                                                          |
| Lee et al., 2022                      | C | /          | 36  | 8.87  | 0.89 | Asia          | Basic; Mixed; Verbal; Forced                                    | Battery basic (e.g., emotion recognition, seeing-leads-to-knowing, line-of-sight, inference of perception-based action, False Belief)<br>Battery Advanced (e.g., False Belief, message-desire discrepancy) | no  | 0.47 - 0.70 | RC            | /                                                           | Child                     | VA<br>EF<br>NVA<br>SES | Receptive and expressive vocabulary<br>WM; planning; inhibition<br>Matrix reasoning<br>Family social background              |
| Lockl et al., 2017                    | L | ToM --> AA | 82  | 4.20  | 0.50 | Europe        | Basic; Cognitive; Verbal; Open                                  | Battery (False Belief; Knowledge access)                                                                                                                                                                   | yes | 0.64        | RC<br>M<br>AP | Calculation; number sense                                   | Child<br>Child<br>Teacher | VA<br>EF<br>NVA<br>SES | Composite (receptive vocabulary; grammar)<br>WM<br>Composite (analogies; categories)<br>General family socio-economic status |
| Martins et al., 2019                  | C | /          | 75  | 5.79  | 0.52 | Europe        | Basic; Mixed; Verbal; Open                                      | Wellman ToM Scale                                                                                                                                                                                          | yes | 0.55        | AP            | /                                                           | Child                     | VA<br>NVA<br>SES       | Composite (verbal IQ)<br>Non-verbal IQ battery<br>Maternal education                                                         |
|                                       | L | ToM --> AA |     | 4.59  |      |               |                                                                 |                                                                                                                                                                                                            |     |             |               |                                                             |                           |                        |                                                                                                                              |
| McIntyre et al., 2018                 | C | /          | 35  | 12.84 | 0.63 | North America | Advanced; Mixed; Verbal; Open<br>Advanced; Mixed; Visual; Open  | Strange Stories<br>Silent Film                                                                                                                                                                             | yes | /           | RC            | /                                                           | Child                     | VA<br>SES              | Receptive vocabulary<br>Parental education                                                                                   |
| Mota et al., 2016                     | C | /          | 76  | 7.29  | 0.53 | South America | Basic; Cognitive; Mixed; Open                                   | Battery (False Belief; Picture sequence test)                                                                                                                                                              | /   | /           | M<br>AP       | Number sense; calculation; geometry                         | Child                     | NVA                    | Matrix reasoning                                                                                                             |
|                                       | L | ToM --> AA |     |       |      |               |                                                                 |                                                                                                                                                                                                            |     |             |               |                                                             |                           |                        |                                                                                                                              |
| Nakamichi et al., 2024                | C | /          | 85  | 8.53  | 0.51 | Asia          | Basic; Cognitive; Verbal; Open<br>Advanced; Mixed; Verbal; Open | False Belief<br>Strange Stories                                                                                                                                                                            | yes | /           | AP            | /                                                           | Mixed (Child, Teacher)    | EF                     | Inhibition; WM                                                                                                               |
|                                       | L | ToM --> AA |     |       |      |               |                                                                 |                                                                                                                                                                                                            |     |             |               |                                                             |                           |                        |                                                                                                                              |
|                                       | L | AA --> ToM |     |       |      |               |                                                                 | Strange Stories                                                                                                                                                                                            | yes | /           |               |                                                             |                           |                        |                                                                                                                              |
| Nakamichi et al., 2021                | L | ToM --> AA | 48  | 6.49  | 0.52 | Asia          | Advanced; Mixed; Verbal; Open                                   | Battery (diverse desire task, diverse beliefs, knowledge-access, False Belief, hidden emotion, sarcasm)                                                                                                    | yes | /           | AP            | /                                                           | Child                     | EF                     | Cool EF battery (e.g., inhibition; WM); hot EF battery (e.g., shifting)                                                      |
| Nathan & Rucklidge, 2011              | C | /          | 21  | 10.50 | 0.52 | Oceania       | Advanced; Mixed; Verbal; Open                                   | Faux Pas                                                                                                                                                                                                   | yes | /           | RC            | /                                                           | Child                     | VA<br>NVA<br>SES       | Composite (verbal IQ)<br>Non-verbal IQ battery<br>Maternal education                                                         |
| Obeid et al., 2022                    | C | /          | 62  | 8.17  | 0.48 | North America | Basic; Visual; Cognitive; Forced                                | Attribution of intention                                                                                                                                                                                   | yes | 0.73        | RC            | /                                                           |                           | VA<br>EF               | Receptive vocabulary<br>WM                                                                                                   |
| Osterhaus et al., 2024                | C | /          | 112 | 9.00  | 0.46 | Europe        | Advanced; Mixed; Verbal; Mixed                                  | Battery (social reasoning; recognition of social norm transgressions; ambiguity comprehension)                                                                                                             | yes | 0.49 - 0.80 | RC            | /                                                           | Child                     | NVA                    | Matrix reasoning                                                                                                             |
|                                       | L | ToM --> AA |     |       |      |               |                                                                 |                                                                                                                                                                                                            |     |             |               |                                                             |                           |                        |                                                                                                                              |
|                                       | L | AA --> ToM |     |       |      |               |                                                                 |                                                                                                                                                                                                            |     |             |               |                                                             |                           |                        |                                                                                                                              |
| Snogorzewska et al., 2022a            | C | /          | 121 | 7.40  | 0.68 | Europe        | Advanced; Mixed; Verbal; Open                                   | Faux Pas                                                                                                                                                                                                   | yes | 0.75        | M<br>AP       | Composite (calculation; problem solving; geometry)          | Child                     | SES                    | Maternal education                                                                                                           |
|                                       | L | ToM --> AA |     |       |      |               |                                                                 |                                                                                                                                                                                                            |     |             |               |                                                             |                           |                        |                                                                                                                              |
| Tam & Cham, 2022                      | C | /          | 324 | 7.11  | 0.53 | Asia          | Basic; Perception; Visual; Forced                               | Visual Perspective-Taking                                                                                                                                                                                  | yes | 0.83        | M             | Calculation; number sense; problem solving; geometry        | Child                     | NVA                    | Mental rotation                                                                                                              |
| Tam et al., 2019                      | C | /          | 92  | 7.69  | 0.54 | Asia          | Basic; Perception; Visual; Forced                               | Visual Perspective-Taking                                                                                                                                                                                  | yes | 0.93        | M             | Numerical facts; calculation; number sense; problem solving | Child                     | NVA                    | Mental rotation                                                                                                              |
| Tong et al., 2020                     | C | /          | 55  | 8.17  | 0.6  | Asia          | Basic; Mixed; Verbal; Forced                                    | Battery (e.g., emotion recognition, seeing-leads-to-knowing, line-of-sight, inference of perception-based action, False Belief)                                                                            | yes | 0.86        | RC            | /                                                           | Child                     | VA<br>EF<br>NVA        | Receptive and expressive vocabulary<br>WM<br>Matrix reasoning                                                                |
| van den Heuvel-Panhuizen et al., 2019 | C | /          | 638 | 5.34  | 0.50 | Europe        | Basic; Perception; Visual; Forced                               | Visual Perspective-Taking                                                                                                                                                                                  | /   | /           | M             | Composite (not reported)                                    | Mixed (Child, Teacher)    | /                      | /                                                                                                                            |
| van der Kleij et al., 2022            | L | AA --> ToM | 203 | 11.26 | 0.43 | Europe        | Advanced; Mixed; Visual; Open                                   | Silent Film                                                                                                                                                                                                | yes | /           | RC            | /                                                           | Child                     | VA<br>SES              | Receptive vocabulary<br>Parental education                                                                                   |
| Wade et al., 2018                     | L | ToM --> AA | 323 | 3.00  | -    | North America | Basic; Mixed; Verbal; Forced                                    | Wellman ToM Scale                                                                                                                                                                                          | yes | 0.85        | RC, M         | Problem solving                                             | Child                     | VA<br>EF<br>SES        | Receptive vocabulary<br>Inhibition<br>Maternal education                                                                     |
| Wang et al., 2024                     | C | /          | 430 | 9.65  | 0.52 | Asia          | Basic; Cognitive; Verbal; Open<br>Advanced; Mixed; Verbal; Open | False Belief<br>Strange Stories                                                                                                                                                                            | yes | 0.96 - 0.98 | RC            | /                                                           | Child                     | VA<br>EF<br>NVA        | Expressive vocabulary<br>WM; inhibition; shifting<br>Matrix reasoning                                                        |
| Wenren et al., 2024                   | C | /          | 668 | 8.54  | 0.63 | Asia          | Basic; Mixed; Verbal; Forced                                    | Cognitive empathy                                                                                                                                                                                          | /   | /           | RC            | /                                                           | Child                     | SES                    | General family socio-economic status                                                                                         |
|                                       | L | AA --> ToM |     |       |      |               |                                                                 |                                                                                                                                                                                                            |     |             |               |                                                             |                           |                        |                                                                                                                              |
| Wilson et al., 2021                   | C | /          | 126 | 8.43  | 0.47 | Oceania       | Advanced; Mixed; Verbal; Open                                   | Strange Stories                                                                                                                                                                                            | yes | /           | M             | Calculation                                                 | Child                     | EF<br>SES              | Cool EF battery (e.g., inhibition; WM); hot EF battery (e.g., decision-making)<br>Family monthly income                      |
| Zarrella et al., 2018                 | C | /          | 159 | 9.60  | 0.43 | Europe        | Advanced; Mixed; Verbal; Open                                   | Battery of cognitive, emotive and moral stories                                                                                                                                                            | /   | 0.71        | RC<br>M<br>AP | Number sense; calculation; problem solving                  | Child                     | VA                     | Receptive vocabulary                                                                                                         |