

Title: Thriving through relationships in sport: The role of the parent-athlete and coach-athlete attachment relationship

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Electronic Supplementary Material: Example Mplus Syntax

The following supplementary material provide examples of the Mplus input files used for the analyses. These are intended to support readers' interpretation of the analyses conducted in the study and to offer substantive examples for their future work.

Example 1: Measurement Model

TITLE:

AT, NS, and TH Measurement Model

DATA:

File is "N:\Desktop\AT1.7.csv";

VARIABLE:

NAMES ARE

UniqueID

CAAS1AV1 CAAS2AV2 CAAS3AV3 CAAS4AV4 CAAS5AV5 CAAS6AV6

CAAS7AV7

CAAS8AX1 CAAS9AX2 CAAS10AX3 CAAS11AX4 CAAS12AX5 CAAS13AX6

CAAS14AX7

CAAS15S1 CAAS16S2 CAAS17S3 CAAS18S4 CAAS19S5

AS CS RS

SP SV PA;

USEVARIABLES

CAAS1AV1 CAAS2AV2 CAAS3AV3 CAAS4AV4 CAAS5AV5 CAAS6AV6

CAAS7AV7

CAAS8AX1 CAAS9AX2 CAAS10AX3 CAAS11AX4 CAAS12AX5 CAAS13AX6

CAAS14AX7

CAAS15S1 CAAS16S2 CAAS17S3 CAAS18S4 CAAS19S5

AS CS RS

SP SV PA;

MISSING = ALL(9999);

ANALYSIS:

ESTIMATOR = MLR;

MODEL:

AVOID by CAAS1AV1 CAAS2AV2 CAAS3AV3 CAAS4AV4 CAAS5AV5 CAAS6AV6

CAAS7AV7;

[AVOID];

[CAAS1AV1@0];

ANX by CAAS8AX1 CAAS9AX2 CAAS10AX3 CAAS11AX4 CAAS12AX5 CAAS13AX6

CAAS14AX7;

[ANX];

[CAAS8AX1@0];

SECUR by CAAS15S1 CAAS16S2 CAAS17S3 CAAS18S4 CAAS19S5;

[SECUR];

[CAAS15S1@0];

NS by AS CS RS;

[NS];

[AS@0];

TH by SP SV PA;

[TH];

[SP@0];

OUTPUT:

STDYX;

MODINDICES(ALL);

Cinterval;

Example 2: Direct Paths

TITLE:

AT and TH Direct Model

DATA:

File is "N:\Desktop\AT1.7.csv";

VARIABLE:

NAMES ARE

UniqueID

CAAS1AV1 CAAS2AV2 CAAS3AV3 CAAS4AV4 CAAS5AV5 CAAS6AV6

CAAS7AV7

CAAS8AX1 CAAS9AX2 CAAS10AX3 CAAS11AX4 CAAS12AX5 CAAS13AX6

CAAS14AX7

CAAS15S1 CAAS16S2 CAAS17S3 CAAS18S4 CAAS19S5

AS CS RS

SP SV PA;

USEVARIABLES

CAAS1AV1 CAAS2AV2 CAAS3AV3 CAAS4AV4 CAAS5AV5 CAAS6AV6

CAAS7AV7

CAAS8AX1 CAAS9AX2 CAAS10AX3 CAAS11AX4 CAAS12AX5 CAAS13AX6

CAAS14AX7

CAAS15S1 CAAS16S2 CAAS17S3 CAAS18S4 CAAS19S5

SP SV PA;

MISSING = ALL(9999);

ANALYSIS:

ESTIMATOR = MLR;

MODEL:

AVOID by CAAS1AV1 CAAS2AV2 CAAS3AV3 CAAS4AV4 CAAS5AV5 CAAS6AV6

CAAS7AV7;

[AVOID];

[CAAS1AV1@0];

ANX by CAAS8AX1 CAAS9AX2 CAAS10AX3 CAAS11AX4 CAAS12AX5 CAAS13AX6

CAAS14AX7;

[ANX];

[CAAS8AX1@0];

SECUR by CAAS15S1 CAAS16S2 CAAS17S3 CAAS18S4 CAAS19S5;

[SECUR];

[CAAS15S1@0];

TH by SP SV PA;

[TH];

[SP@0];

TH on AVOID ANX SECUR;

OUTPUT:

STDYX;

MODINDICES(ALL);

Cinterval;

Example 3: Mediation Model

TITLE:

AT, NS, and TH Path Model

DATA:

File is "N:\Desktop\AT1.7.csv";

VARIABLE:

NAMES ARE

UniqueID

CAAS1AV1 CAAS2AV2 CAAS3AV3 CAAS4AV4 CAAS5AV5 CAAS6AV6

CAAS7AV7

CAAS8AX1 CAAS9AX2 CAAS10AX3 CAAS11AX4 CAAS12AX5 CAAS13AX6

CAAS14AX7

CAAS15S1 CAAS16S2 CAAS17S3 CAAS18S4 CAAS19S5

AS CS RS

SP SV PA;

USEVARIABLES

CAAS1AV1 CAAS2AV2 CAAS3AV3 CAAS4AV4 CAAS5AV5 CAAS6AV6

CAAS7AV7

CAAS8AX1 CAAS9AX2 CAAS10AX3 CAAS11AX4 CAAS12AX5 CAAS13AX6

CAAS14AX7

CAAS15S1 CAAS16S2 CAAS17S3 CAAS18S4 CAAS19S5

AS CS RS

SP SV PA;

MISSING = ALL(9999);

ANALYSIS:

ESTIMATOR = MLR;

MODEL:

AVOID by CAAS1AV1 CAAS2AV2 CAAS3AV3 CAAS4AV4 CAAS5AV5 CAAS6AV6

CAAS7AV7;

[AVOID];

[CAAS1AV1@0];

ANX by CAAS8AX1 CAAS9AX2 CAAS10AX3 CAAS11AX4 CAAS12AX5 CAAS13AX6

CAAS14AX7;

[ANX];

[CAAS8AX1@0];

SECUR by CAAS15S1 CAAS16S2 CAAS17S3 CAAS18S4 CAAS19S5;
 [SECUR];
 [CAAS15S1@0];

NS by AS CS RS;
 [NS];
 [AS@0];

TH by SP SV PA;
 [TH];
 [SP@0];

TH on AVOID ANX SECUR NS;
 NS on AVOID ANX SECUR;

model indirect: TH ind AVOID;
 model indirect: TH ind ANX;
 model indirect: TH ind SECUR;

OUTPUT:
 STDYX;
 Cinterval;

Example 4: Indirect Path Confidence Intervals

TITLE:
 AT, NS, and TH Path Model Indirect CIs
 DATA:
 File is "N:\Desktop\AT1.7.csv";
 VARIABLE:
 NAMES ARE
 UniqueID
 CAAS1AV1 CAAS2AV2 CAAS3AV3 CAAS4AV4 CAAS5AV5 CAAS6AV6
 CAAS7AV7
 CAAS8AX1 CAAS9AX2 CAAS10AX3 CAAS11AX4 CAAS12AX5 CAAS13AX6
 CAAS14AX7
 CAAS15S1 CAAS16S2 CAAS17S3 CAAS18S4 CAAS19S5
 AS CS RS
 SP SV PA;
 USEVARIABLES
 CAAS1AV1 CAAS2AV2 CAAS3AV3 CAAS4AV4 CAAS5AV5 CAAS6AV6
 CAAS7AV7
 CAAS8AX1 CAAS9AX2 CAAS10AX3 CAAS11AX4 CAAS12AX5 CAAS13AX6
 CAAS14AX7
 CAAS15S1 CAAS16S2 CAAS17S3 CAAS18S4 CAAS19S5
 AS CS RS
 SP SV PA;
 MISSING = ALL(9999);
 ANALYSIS:

```

Bootstrap = 10000;
MODEL:
AVOID by CAAS1AV1 CAAS2AV2 CAAS3AV3 CAAS4AV4 CAAS5AV5 CAAS6AV6
CAAS7AV7;
  [AVOID];
  [CAAS1AV1@0];

ANX by CAAS8AX1 CAAS9AX2 CAAS10AX3 CAAS11AX4 CAAS12AX5 CAAS13AX6
CAAS14AX7;
  [ANX];
  [CAAS8AX1@0];

SECUR by CAAS15S1 CAAS16S2 CAAS17S3 CAAS18S4 CAAS19S5;
  [SECUR];
  [CAAS15S1@0];

NS by AS CS RS;
  [NS];
  [AS@0];

TH by SP SV PA;
  [TH];
  [SP@0];

TH on AVOID ANX SECUR NS;
NS on AVOID ANX SECUR;

model indirect: TH ind AVOID;
model indirect: TH ind ANX;
model indirect: TH ind SECUR;

OUTPUT:
  STDYX;
  Cinterval (bcbootstrap);

```

Example 5: Path Analysis for Parent Attachment, Performance, and Thriving

```

TITLE:
Father attachment, Performance, and TH(FScores) Structural Model
DATA:
File is "N:\Desktop\AT3.5.csv";
VARIABLE:
  NAMES ARE
    Number
    FSA
    FIA
    PER
    TH;
  USEVARIABLES
    FSA

```

```
FIA  
PER  
TH;  
MISSING = ALL(9999);
```

ANALYSIS:

```
ESTIMATOR = MLR;
```

MODEL:

```
TH ON FSA FIA;
```

```
PER ON FSA FIA;
```

OUTPUT:

```
sampstat;
```

```
STDYX;
```

```
Cinterval;
```