**Appendix B**

**Item Fit Statistics for Each Subscale**

For the Teacher Role Identity Subscales (Table B1), TEACH4 was the most difficult item for TAs to endorse and TEACH10 was the easiest item to endorse on TRIS1, and TEACH11 was the most difficult item to endorse and TEACH3 was the easiest item to endorse on TRIS2. We flagged TEACH4 on TRIS1 and TEACH5 and TEACH13 on TRIS2 as potential items that may not be reasonably fitting the model based on Infit and Outfit MNSQ statistics. For the Researcher Role Identity Subscales (Table B2), RES3 was the most difficult item to endorse and RES1 was the easiest item to endorse on RRIS1. RES14 was the hardest item to endorse and RES7 was the easiest item to endorse on RRIS2. RES12 was the hardest item to endorse and RES11 was the easiest item to endorse on RRIS3. We flagged RES14 on RRIS2 and RES8 on RRIS3 as potential items that may not be reasonably fitting the model. For the Mentor Role Identity Subscales (Table B3), MENT13 was the most difficult item to endorse and MENT1 was the easiest item to endorse on MRIS1. MENT9 was the most difficult item to endorse and MENT14 was the easiest item to endorse on MRIS2. We flagged MENT12 on MRIS1 as a potential item that may not be reasonably fitting the model.

**Table B1**

***Items, item measures, and item fit statistics for Teacher Role Identity subscales.***

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Subscale** | **Item** | ***N*** | **Item Difficulty** | **Total Score** | **Infit MNSQ** | **Outfit MNSQ** |
| TRIS1 | TEACH4 | 31 | .72 | 86 | 1.42 | 1.39 |
|  | TEACH8 | 31 | .46 | 89 | 1.18 | 1.15 |
|  | TEACH1 | 31 | -.43 | 99 | .71 | 1.10 |
|  | TEACH10 | 31 | -.83 | 103 | 1.09 | .97 |
|  | TEACH6 | 31 | .38 | 90 | .89 | .96 |
|  | TEACH7 | 31 | -.06 | 95 | .91 | .84 |
|  | TEACH9 | 31 | -.24 | 97 | .69 | .66 |
|  | *M* | 31.00 | .00 | 94.10 | .98 | 1.01 |
|  | *SD* | .00 | .51 | 5.60 | .24 | .22 |
| TRIS2 | TEACH5 | 31 | .87 | 78 | 1.53 | 1.43 |
|  | TEACH2 | 31 | .33 | 87 | 1.29 | 1.34 |
|  | TEACH14 | 31 | -.25 | 96 | .93 | .93 |
|  | TEACH3 | 31 | -1.10 | 107 | .92 | .90 |
|  | TEACH11 | 30 | .98 | 74 | .80 | .79 |
|  | TEACH12 | 30 | .10 | 88 | .66 | .77 |
|  | TEACH13 | 31 | -.93 | 105 | .56 | .55 |
|  | *M* | 30.70 | .00 | 90.7 | .96 | .96 |
|  | *SD* | .50 | .75 | 11.7 | .32 | .29 |

*Note.* TRIS1 = Teacher Role Identity Subscale 1; TRIS2 = Teacher Role Identity Subscale 2. MNSQ = mean square.

**Table B2**

***Items, item measures, and item fit statistics for Researcher Role Identity subscales.***

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Subscale** | **Item** | ***n*** | **Item Difficulty** | **Total Score** | **Infit MNSQ** | **Outfit MNSQ** |
| RRIS1 | RES1 | 31 | -.43 | 80 | 1.18 | 1.15 |
|  | RES4 | 31 | -.12 | 74 | 1.18 | 1.18 |
|  | RES3 | 31 | .87 | 54 | .97 | .93 |
|  | RES2 | 31 | -.32 | 78 | .71 | .68 |
|  | *M* | 31.00 | .00 | 71.50 | 1.01 | .98 |
|  | *SD* | .00 | .52 | 10.30 | .20 | .20 |
| RRIS2 | RES14 | 31 | 1.79 | 47 | 1.51 | 1.34 |
|  | RES9 | 31 | 1.54 | 50 | .99 | 1.19 |
|  | RES7 | 31 | -1.50 | 87 | .77 | .81 |
|  | RES13 | 31 | -.61 | 77 | .77 | .69 |
|  | RES5 | 31 | -1.22 | 84 | .71 | .75 |
|  | *M* | 31.00 | .00 | 69.00 | .95 | .96 |
|  | *SD* | .00 | 1.39 | 17.10 | .30 | .26 |
| RRIS3 | RES8 | 31 | .11 | 61 | 1.61 | 1.50 |
|  | RES6 | 31 | .66 | 54 | 1.17 | 1.26 |
|  | RES12 | 31 | 1.06 | 49 | .78 | .78 |
|  | RES10 | 30 | -.45 | 64 | .75 | .73 |
|  | RES11 | 31 | -1.37 | 79 | .64 | .64 |
|  | *M* | 30.80 | .00 | 61.4 | .99 | .98 |
|  | *SD* | .40 | .86 | 10.2 | .36 | .34 |

*Note.* RRIS1 = Researcher Role Identity Subscale 1; RRIS2 = Researcher Role Identity Subscale 2; RRIS3 = Researcher Role Identity Subscale 3. MNSQ = mean square.

**Table B3**

***Items, item measures, and item fit statistics for Mentor Role Identity subscales.***

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Subscale** | **Item** | ***n*** | **Item Difficulty** | **Total Score** | **Infit MNSQ** | **Outfit MNSQ** |
| MRIS1 | MENT6 | 31 | -.57 | 75 | 1.30 | 1.28 |
|  | MENT13 | 31 | .78 | 50 | 1.29 | 1.25 |
|  | MENT4 | 31 | .07 | 63 | 1.25 | 1.23 |
|  | MENT5 | 31 | .73 | 51 | 1.09 | 1.07 |
|  | MENT1 | 31 | -.90 | 81 | .97 | .95 |
|  | MENT2 | 31 | .45 | 56 | .80 | .81 |
|  | MENT11 | 31 | -.31 | 70 | .68 | .68 |
|  | MENT12 | 31 | -.25 | 69 | .59 | .59 |
|  | *M* | 31.00 | .00 | 64.40 | 1.00 | .98 |
|  | *SD* | .00 | .57 | 10.60 | .26 | .25 |
| MRIS2 | MENT8 | 31 | -.33 | 70 | 1.37 | 1.33 |
|  | MENT3 | 31 | -.12 | 67 | 1.22 | 1.24 |
|  | MENT7 | 31 | .67 | 56 | 1.02 | 1.05 |
|  | MENT9 | 31 | 1.03 | 51 | .85 | .92 |
|  | MENT14 | 31 | -.98 | 79 | .85 | .82 |
|  | MENT10 | 31 | -.26 | 69 | .60 | .64 |
|  | *M* | 31.00 | .00 | 65.30 | .99 | 1.00 |
|  | *SD* | .00 | .66 | 9.30 | .25 | .24 |

*Note.* MRIS1 = Mentor Role Identity Subscale 1; MRIS2 = Mentor Role Identity Subscale 2. MNSQ = mean square.