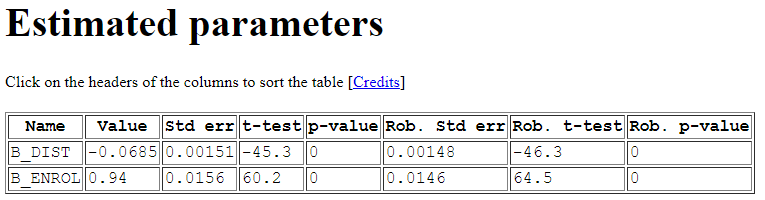
**Singly Constrained vs Doubly Constrained Model Results**

**SINGLY CONSTRAINED:**

**FAMILY**

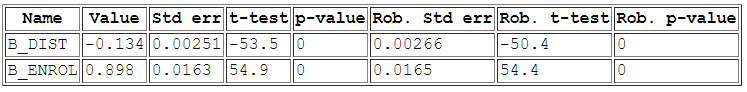
V\_i **=** B\_Enroll ***\**** Enroll\_i **+** B\_Dist ***\**** Dist\_i



APO = 25.7%

**NON-FAMILY**

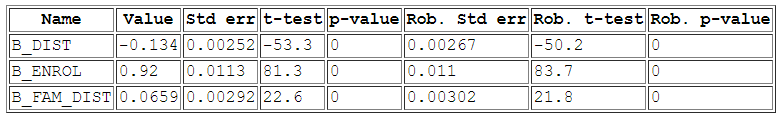
V\_i **=** B\_Enroll ***\**** Enroll\_i **+** B\_Dist ***\**** Dist\_i



APO = 43.9%

**COMBINED (FAMILY + NON-FAMILY)**

V\_i **=** B\_Enroll ***\**** Enroll\_i **+** B\_Dist ***\**** Dist\_i **+** B\_Fam\_Dist ***\**** Family ***\**** Dist\_i

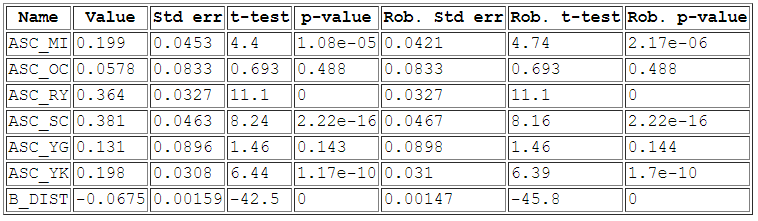


APO = 33.6%

**DOUBLY CONSTRAINED (“Eric Model”):**

**FAMILY**

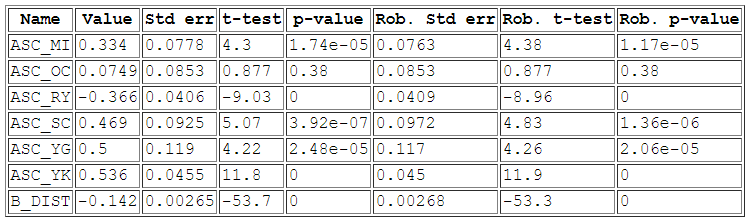
V\_i **=** ASC\_i **+** B\_Enroll ***\**** Enroll\_i **+** B\_Dist ***\**** Dist\_i, where B\_Enroll = 1



APO = 25.4%

**NON-FAMILY**

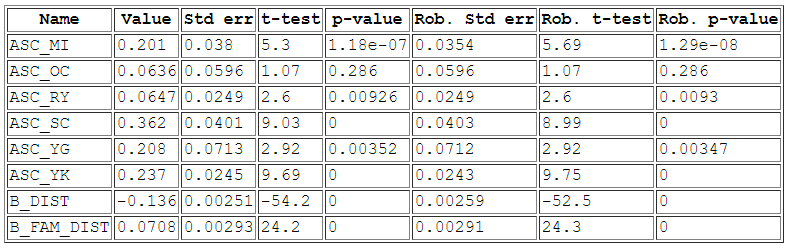
V\_i **=** ASC\_i **+** B\_Enroll ***\**** Enroll\_i **+** B\_Dist ***\**** Dist\_i, where B\_Enroll = 1



APO = 46.6%

**COMBINED (FAMILY + NON-FAMILY)**

V\_i **=** ASC\_i **+** B\_Enroll ***\**** Enroll\_i **+** B\_Dist ***\**** Dist\_i **+** B\_Fam\_Dist ***\**** Family ***\**** Dist\_i, where B\_Enroll = 1



APO = 33.6%