# Project 1 Supplemental Figures

**Table S.1:** Setting 1 - continuous $Y$ (scenario 1) tables and figures references.

| Figure | Data-generating mechanism | | | | Table | Rows |
|---|---|---|---|---|---|---|
| | $Y$ | $\mathbf{X}$ | $\mathrm{Corr}(X_x, X_y)$ | % Missing | | |
| 1 | Continuous | Continuous | 0.00 | 0.2 | A.3 | 1, 2 |
| 2 | Continuous | Continuous | 0.00 | 0.4 | A.3 | 3, 4 |
| 3 | Continuous | Continuous | 0.20 | 0.2 | A.3 | 5, 6 |
| 4 | Continuous | Continuous | 0.20 | 0.4 | A.3 | 7, 8 |
| 5 | Continuous | Binary | 0.00 | 0.2 | A.3 | 9, 10 |
| 6 | Continuous | Binary | 0.00 | 0.4 | A.3 | 11, 12 |
| 7 | Continuous | Binary | 0.20 | 0.2 | A.3 | 13, 14 |
| 8 | Continuous | Binary | 0.20 | 0.4 | A.3 | 15, 16 |

**Table S.2:** Setting 1 - binary outcome (scenario 2a, $\beta_T = 0.00$) tables and figures references.

| Figure | Data-generating mechanism | | | | | | Table | Rows |
|---|---|---|---|---|---|---|---|---|
| | $Y$ | $\mathbf{X}$ | $\beta_T$ | $\beta_X$ | $\mathrm{Corr}(X_x, X_y)$ | % Missing | | |
| 1 | Binary | Continuous | 0.00 | 0.00 | 0.00 | 0.2 | A.5 | 1, 10, 19 |
| 2 | Binary | Continuous | 0.00 | 0.02 | 0.00 | 0.2 | A.5 | 2, 11, 20 |
| 3 | Binary | Continuous | 0.00 | -0.02 | 0.00 | 0.4 | A.5 | 3, 12, 21 |
| 4 | Binary | Continuous | 0.00 | 0.00 | 0.00 | 0.4 | A.5 | 1, 10, 19 |
| 5 | Binary | Continuous | 0.00 | 0.02 | 0.00 | 0.2 | A.5 | 2, 11, 20 |
| 6 | Binary | Continuous | 0.00 | -0.02 | 0.00 | 0.2 | A.5 | 3, 12, 21 |
| 7 | Binary | Continuous | 0.00 | 0.00 | 0.20 | 0.4 | A.5 | 1, 10, 19 |
| 8 | Binary | Continuous | 0.00 | 0.02 | 0.20 | 0.4 | A.5 | 2, 11, 20 |
| 9 | Binary | Continuous | 0.00 | -0.02 | 0.20 | 0.2 | A.5 | 3, 12, 21 |
| 10 | Binary | Continuous | 0.00 | 0.00 | 0.20 | 0.2 | A.5 | 1, 10, 19 |
| 11 | Binary | Continuous | 0.00 | 0.02 | 0.20 | 0.4 | A.5 | 2, 11, 20 |
| 12 | Binary | Continuous | 0.00 | -0.02 | 0.20 | 0.4 | A.5 | 3, 12, 21 |
| 13 | Binary | Binary | 0.00 | 0.00 | 0.00 | 0.2 | A.5 | 1, 10, 19 |
| 14 | Binary | Binary | 0.00 | 0.02 | 0.00 | 0.2 | A.5 | 2, 11, 20 |
| 15 | Binary | Binary | 0.00 | -0.02 | 0.00 | 0.4 | A.5 | 3, 12, 21 |
| 16 | Binary | Binary | 0.00 | 0.00 | 0.00 | 0.4 | A.5 | 1, 10, 19 |
| 17 | Binary | Binary | 0.00 | 0.02 | 0.00 | 0.2 | A.5 | 2, 11, 20 |
| 18 | Binary | Binary | 0.00 | -0.02 | 0.00 | 0.2 | A.5 | 3, 12, 21 |
| 19 | Binary | Binary | 0.00 | 0.00 | 0.20 | 0.4 | A.5 | 1, 10, 19 |
| 20 | Binary | Binary | 0.00 | 0.02 | 0.20 | 0.4 | A.5 | 2, 11, 20 |
| 21 | Binary | Binary | 0.00 | -0.02 | 0.20 | 0.2 | A.5 | 3, 12, 21 |
| 22 | Binary | Binary | 0.00 | 0.00 | 0.20 | 0.2 | A.5 | 1, 10, 19 |
| 23 | Binary | Binary | 0.00 | 0.02 | 0.20 | 0.4 | A.5 | 2, 11, 20 |
| 24 | Binary | Binary | 0.00 | -0.02 | 0.20 | 0.4 | A.5 | 3, 12, 21 |

**Table S.3:** Setting 1 - binary outcome (scenario 2b, $\beta_T = 0.50$) tables and figures references.

| Figure | Data-generating mechanism | | | | | | Table | Rows |
|---|---|---|---|---|---|---|---|---|
| | $Y$ | $\mathbf{X}$ | $\beta_T$ | $\beta_X$ | $\mathrm{Corr}(X_x, X_y)$ | % Missing | | |
| 1 | Binary | Continuous | 0.50 | 0.00 | 0.00 | 0.2 | A.5 | 4, 13, 22 |
| 2 | Binary | Continuous | 0.50 | 0.02 | 0.00 | 0.2 | A.5 | 5, 14, 23 |
| 3 | Binary | Continuous | 0.50 | -0.02 | 0.00 | 0.4 | A.5 | 6, 15, 24 |
| 4 | Binary | Continuous | 0.50 | 0.00 | 0.00 | 0.4 | A.5 | 4, 13, 22 |
| 5 | Binary | Continuous | 0.50 | 0.02 | 0.00 | 0.2 | A.5 | 5, 14, 23 |
| 6 | Binary | Continuous | 0.50 | -0.02 | 0.00 | 0.2 | A.5 | 6, 15, 24 |
| 7 | Binary | Continuous | 0.50 | 0.00 | 0.20 | 0.4 | A.5 | 4, 13, 22 |
| 8 | Binary | Continuous | 0.50 | 0.02 | 0.20 | 0.4 | A.5 | 5, 14, 23 |
| 9 | Binary | Continuous | 0.50 | -0.02 | 0.20 | 0.2 | A.5 | 6, 15, 24 |
| 10 | Binary | Continuous | 0.50 | 0.00 | 0.20 | 0.2 | A.5 | 4, 13, 22 |
| 11 | Binary | Continuous | 0.50 | 0.02 | 0.20 | 0.4 | A.5 | 5, 14, 23 |
| 12 | Binary | Continuous | 0.50 | -0.02 | 0.20 | 0.4 | A.5 | 6, 15, 24 |
| 13 | Binary | Binary | 0.50 | 0.00 | 0.00 | 0.2 | A.5 | 4, 13, 22 |
| 14 | Binary | Binary | 0.50 | 0.02 | 0.00 | 0.2 | A.5 | 5, 14, 23 |
| 15 | Binary | Binary | 0.50 | -0.02 | 0.00 | 0.4 | A.5 | 6, 15, 24 |
| 16 | Binary | Binary | 0.50 | 0.00 | 0.00 | 0.4 | A.5 | 4, 13, 22 |
| 17 | Binary | Binary | 0.50 | 0.02 | 0.00 | 0.2 | A.5 | 5, 14, 23 |
| 18 | Binary | Binary | 0.50 | -0.02 | 0.00 | 0.2 | A.5 | 6, 15, 24 |
| 19 | Binary | Binary | 0.50 | 0.00 | 0.20 | 0.4 | A.5 | 4, 13, 22 |
| 20 | Binary | Binary | 0.50 | 0.02 | 0.20 | 0.4 | A.5 | 5, 14, 23 |
| 21 | Binary | Binary | 0.50 | -0.02 | 0.20 | 0.2 | A.5 | 6, 15, 24 |
| 22 | Binary | Binary | 0.50 | 0.00 | 0.20 | 0.2 | A.5 | 4, 13, 22 |
| 23 | Binary | Binary | 0.50 | 0.02 | 0.20 | 0.4 | A.5 | 5, 14, 23 |
| 24 | Binary | Binary | 0.50 | -0.02 | 0.20 | 0.4 | A.5 | 6, 15, 24 |

**Table S.4:** Setting 1 - binary outcome (scenario 2c, $\beta_T = -0.50$) tables and figures references.

| Figure | Data-generating mechanism | | | | | | Table | Rows |
|---|---|---|---|---|---|---|---|---|
| | $Y$ | $\mathbf{X}$ | $\beta_T$ | $\beta_X$ | $\mathrm{Corr}(X_x, X_y)$ | % Missing | | |
| 1 | Binary | Continuous | -0.50 | 0.00 | 0.00 | 0.2 | A.5 | 7, 16, 25 |
| 2 | Binary | Continuous | -0.50 | 0.02 | 0.00 | 0.2 | A.5 | 8, 17, 26 |
| 3 | Binary | Continuous | -0.50 | -0.02 | 0.00 | 0.4 | A.5 | 9, 18, 27 |
| 4 | Binary | Continuous | -0.50 | 0.00 | 0.00 | 0.4 | A.5 | 7, 16, 25 |
| 5 | Binary | Continuous | -0.50 | 0.02 | 0.00 | 0.2 | A.5 | 8, 17, 26 |
| 6 | Binary | Continuous | -0.50 | -0.02 | 0.00 | 0.2 | A.5 | 9, 18, 27 |
| 7 | Binary | Continuous | -0.50 | 0.00 | 0.20 | 0.4 | A.5 | 7, 16, 25 |
| 8 | Binary | Continuous | -0.50 | 0.02 | 0.20 | 0.4 | A.5 | 8, 17, 26 |
| 9 | Binary | Continuous | -0.50 | -0.02 | 0.20 | 0.2 | A.5 | 9, 18, 27 |
| 10 | Binary | Continuous | -0.50 | 0.00 | 0.20 | 0.2 | A.5 | 7, 16, 25 |
| 11 | Binary | Continuous | -0.50 | 0.02 | 0.20 | 0.4 | A.5 | 8, 17, 26 |
| 12 | Binary | Continuous | -0.50 | -0.02 | 0.20 | 0.4 | A.5 | 9, 18, 27 |
| 13 | Binary | Binary | -0.50 | 0.00 | 0.00 | 0.2 | A.5 | 7, 16, 25 |
| 14 | Binary | Binary | -0.50 | 0.02 | 0.00 | 0.2 | A.5 | 8, 17, 26 |
| 15 | Binary | Binary | -0.50 | -0.02 | 0.00 | 0.4 | A.5 | 9, 18, 27 |
| 16 | Binary | Binary | -0.50 | 0.00 | 0.00 | 0.4 | A.5 | 7, 16, 25 |
| 17 | Binary | Binary | -0.50 | 0.02 | 0.00 | 0.2 | A.5 | 8, 17, 26 |
| 18 | Binary | Binary | -0.50 | -0.02 | 0.00 | 0.2 | A.5 | 9, 18, 27 |
| 19 | Binary | Binary | -0.50 | 0.00 | 0.20 | 0.4 | A.5 | 7, 16, 25 |
| 20 | Binary | Binary | -0.50 | 0.02 | 0.20 | 0.4 | A.5 | 8, 17, 26 |
| 21 | Binary | Binary | -0.50 | -0.02 | 0.20 | 0.2 | A.5 | 9, 18, 27 |
| 22 | Binary | Binary | -0.50 | 0.00 | 0.20 | 0.2 | A.5 | 7, 16, 25 |
| 23 | Binary | Binary | -0.50 | 0.02 | 0.20 | 0.4 | A.5 | 8, 17, 26 |
| 24 | Binary | Binary | -0.50 | -0.02 | 0.20 | 0.4 | A.5 | 9, 18, 27 |

**Table S.5:** Setting 2 - continuous $Y$ (scenario 3) tables and figures references.

| Figure | | Data-generating mechanism | | | Table | Rows |
|---|---|---|---|---|---|---|
| | Order | $Y$ | $\mathbf{X}$ | % Missing | | |
| 1 | 1, 2 | Continuous | Continuous | 0.2 | A.6 | 1, 2 |
| 2 | 1, 2 | Continuous | Continuous | 0.4 | A.6 | 3, 4 |
| 3 | 1, 2 | Continuous | Binary | 0.2 | A.6 | 5, 6 |
| 4 | 1, 2 | Continuous | Binary | 0.4 | A.6 | 7, 8 |

**Table S.6:** Setting 2 - binary outcome (scenario 4) tables and figures references.

| Figure | | Data-generating mechanism | | | Table |
|---|---|---|---|---|---|
| | Order | $Y$ | $\mathbf{X}$ | % Missing | |
| 1 | 1, 2 | Binary | Continuous | 0.2 | A.7 |
| 2 | 1, 2 | Binary | Continuous | 0.4 | A.7 |
| 3 | 1, 2 | Binary | Binary | 0.2 | A.7 |
| 4 | 1, 2 | Binary | Binary | 0.4 | A.7 |

**Table S.7:** Setting 3 - continuous $Y$ (scenario 5) tables and figures references.

| Figure | Data-generating mechanism | | | Table | Rows |
|---|---|---|---|---|---|
| | $Y$ | $\mathbf{X}$ | % Missing | | |
| 1 | Continuous | Continuous | 0.2 | A.8 | 1, 2 |
| 2 | Continuous | Continuous | 0.4 | A.8 | 3, 4 |
| 3 | Continuous | Binary | 0.2 | A.8 | 5, 6 |
| 4 | Continuous | Binary | 0.4 | A.8 | 7, 8 |

**Table S.8:** Setting 3 - binary outcome (scenario 6) tables and figures references.

| Figure | Data-generating mechanism | | | Table | Rows |
|---|---|---|---|---|---|
| | $Y$ | $\mathbf{X}$ | % Missing | | |
| 1 | Binary | Continuous | 0.2 | A.9 | 1, 2, 3 |
| 2 | Binary | Continuous | 0.4 | A.9 | 4, 5, 6 |
| 3 | Binary | Binary | 0.2 | A.9 | 7, 8, 9 |
| 4 | Binary | Binary | 0.4 | A.9 | 10, 11, 12 |

**Table S.9:** Setting 4 - continuous $Y$ (scenario 7) tables and figures references.

| Figure | Data-generating mechanism | | | Table | Rows |
|---|---|---|---|---|---|
| | $Y$ | $\mathbf{X}$ | % Missing | | |
| 1 | Continuous | Continuous | 0.2 | A.10 | 1, 2 |
| 2 | Continuous | Continuous | 0.4 | A.10 | 3, 4 |
| 3 | Continuous | Binary | 0.2 | A.10 | 5, 6 |
| 4 | Continuous | Binary | 0.4 | A.10 | 7, 8 |

**Table S.10:** Setting 4 - binary outcome (scenario 8) tables and figures references.

| Figure | Data-generating mechanism | | | Table | Rows |
|---|---|---|---|---|---|
| | $Y$ | $\mathbf{X}$ | % Missing | | |
| 1 | Binary | Continuous | 0.2 | A.11 | 1, 2, 3 |
| 2 | Binary | Continuous | 0.4 | A.11 | 4, 5, 6 |
| 3 | Binary | Binary | 0.2 | A.11 | 7, 8, 9 |
| 4 | Binary | Binary | 0.4 | A.11 | 10, 11, 12 |