

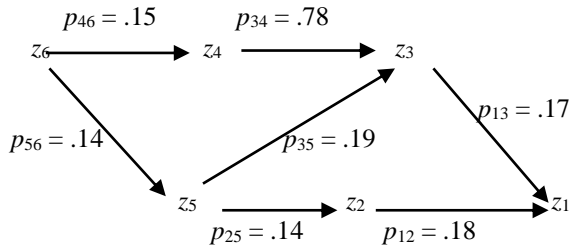
ILLUSTRATED PATH ANALYSIS FOR COX 301 GENIUSES

Correlation Matrix

| z Variable | 6 | 5 | 4 | 3 | 2 | 1 | |
|----------------------|------|------|------|------|------|-----|-----|
| 6. Father's status | | | .14 | .15 | .14 | .02 | .03 |
| 5. Educational level | .14* | | | .02 | .21 | .14 | .06 |
| 4. IQ1 | .15* | .23* | | | .78 | .00 | .13 |
| 3. IQ2 | .10* | .37* | .82* | | | .03 | .18 |
| 2. Versatility | .08 | .14* | .29* | .30* | | | .18 |
| 1. Eminence | .05 | .06 | .18* | .23* | .23* | | |

Raw correlations below the empty diagonal (* $p < .05$); reconstructed correlations above the diagonal.

Tentative Model with Estimated Parameters (using multiple regression):



Estimation Equations (by tracing rule):

$$\begin{aligned}
 r_{12} &= p_{12} + p_{25}p_{35}p_{13} + p_{25}p_{56}p_{46}p_{34}p_{13} = .18 \\
 r_{13} &= p_{13} + p_{34}p_{46}p_{56}p_{25}p_{12} + p_{35}p_{25}p_{12} = .18 \\
 r_{14} &= p_{34}p_{13} + p_{46}p_{56}p_{35}p_{13} + p_{46}p_{56}p_{25}p_{12} = .13 \\
 r_{15} &= p_{35}p_{13} + p_{25}p_{12} + p_{56}p_{46}p_{34}p_{13} = .06 \\
 r_{16} &= p_{46}p_{34}p_{13} + p_{56}p_{35}p_{13} + p_{56}p_{25}p_{12} = .03 \\
 r_{23} &= p_{35}p_{25} + p_{34}p_{46}p_{56}p_{25} = .03 \\
 r_{24} &= p_{46}p_{56}p_{25} = .00 \\
 r_{25} &= p_{25} = .14 \\
 r_{26} &= p_{56}p_{25} = .02 \\
 r_{34} &= p_{34} + p_{46}p_{56}p_{35} = .78 & r_{45} &= p_{46}p_{56} = .02 \\
 r_{35} &= p_{35} + p_{56}p_{46}p_{34} = .21 & r_{46} &= p_{46} = .15 \\
 r_{36} &= p_{46}p_{34} + p_{56}p_{35} = .14 & r_{56} &= p_{56} = .14
 \end{aligned}$$