Studying the Shared and Unique Realities of Families
Handling Triads and More

“Family systems and subsystems may appropriately be described...in terms of the balance between shared and individual perceptions of reality” (1993).
Study 1: Divergent Realities (Dyer, Day, Harper, 2013)

- Fathers, adolescents, and mothers each perceive father involvement (FI) uniquely.
  - Measurement invariance: FI items don’t mean the same thing across reporters.

- Predictive validity differs across reporters
  - Father reports of FI have the least predictive validity
  - Child reports had the most predictive validity
Study 2: Examining the Shared and Unique

› To what degree do fathers, mothers, and adolescents share a view of FI?
› To what degree do they have unique views?
› What influences the shared and unique views of fathers, mothers, and adolescents?
Latent Variables

› They identify what is shared and unique among items.
Measuring Shared and Unique: Bifactor

Father View (unique)

Child View (unique)

Mother View (unique)

Shared View
Measuring Shared and Unique: 2\textsuperscript{nd} Order

- Father View: $Y_{1f}$, Unique Father
- Child View: $Y_{1c}$, Unique Child
- Mother View: $Y_{1m}$, Unique Mother
- Shared View: $Y_{3f}$, $Y_{3c}$, $Y_{3m}$
Measuring Shared and Unique: 2\textsuperscript{nd} Order

\begin{align*}
\text{Father View} & \quad \text{Child View} & \quad \text{Mother View} \\
Y_{1f} & \quad Y_{2f} & \quad Y_{3f} \\
& \quad Y_{1c} & \quad Y_{2c} & \quad Y_{3c} \\
& \quad Y_{1m} & \quad Y_{2m} & \quad Y_{3m} \\
\text{Unique Father} & \quad \text{Unique Child} & \quad \text{Unique Mother} \\
.74 & \quad .68 & \quad .90 \\
\end{align*}
Example: Father Engagement and Warmth

<table>
<thead>
<tr>
<th>2nd Order Loadings</th>
<th>Engagement</th>
<th>Warmth</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>$\beta$</td>
<td>$R^2$</td>
</tr>
<tr>
<td>Dad Report</td>
<td>.74</td>
<td>.55</td>
</tr>
<tr>
<td>Child Report</td>
<td>.68</td>
<td>.46</td>
</tr>
<tr>
<td>Mom Report</td>
<td>.90</td>
<td>.81</td>
</tr>
</tbody>
</table>
Predicting Shared and Unique Views

› Father unique view
  – More involvement predicted by *poorer* marital quality and higher maternal depression (compensatory model?)

› Child unique view
  – Involvement predicted by father anti-social behaviors (sentiment override?)

› Mother unique view
  – The fewer the father’s work hours, the less he’s perceived as involved. The more mother’s work hours, the more he is perceived as involved.
But what about Broderick?

› The *degree* to which they share is central.
› What we have done does not get at variance amount of shared.
› Could...
  – Difference scores
  – Multiple group analysis
Or...

Study 3: Factor Mixture Modeling

› Identifies groups of shared.

› Assumption: You sample is a combination of different factor structures.
  – Common FA just gives you the average factor loadings.

› Questions:
  – What “kinds” of sharing exist?
  – What influences the kind of shared?
  – What are the outcomes of the kind of shared?
Predictors:
Child more agreeable
Mother more depressed

Outcomes:
Less triangulation
And more...(Study 4???)