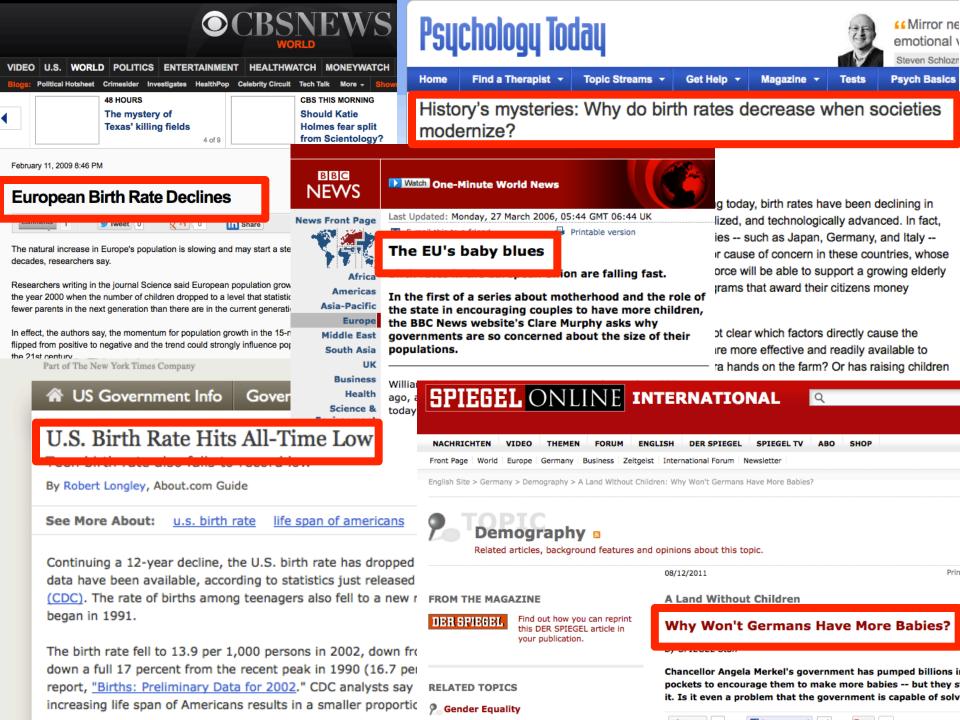


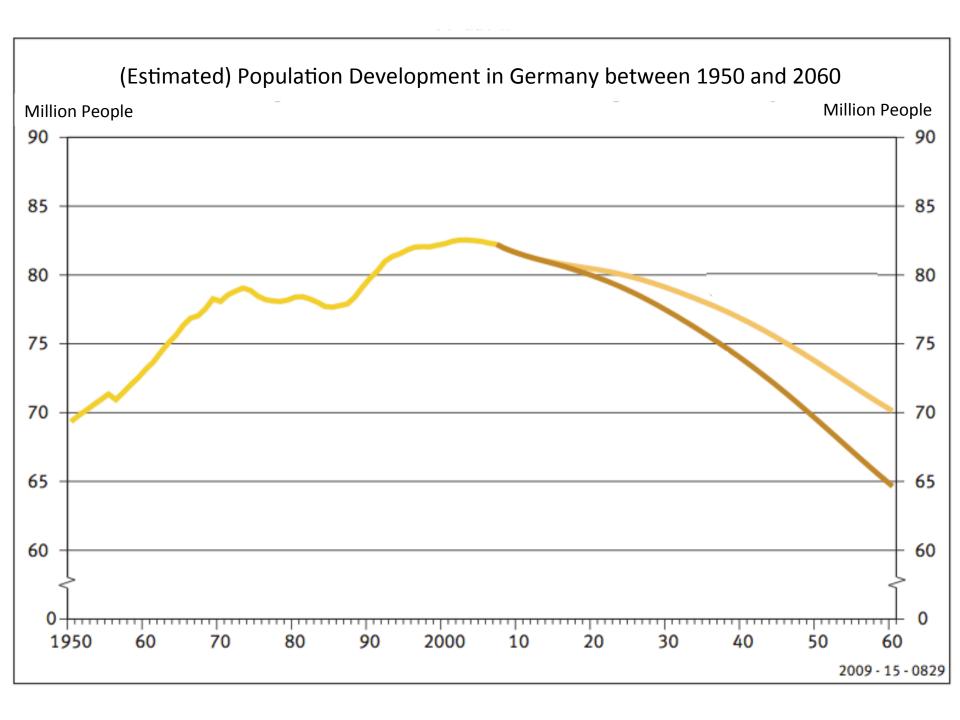
It Takes Two: A Longitudinal Dyadic Study on Predictors of Fertility Outcomes

Roos Hutteman¹, Wiebke Bleidorn², Lars Penke³, & Jaap Denissen⁴

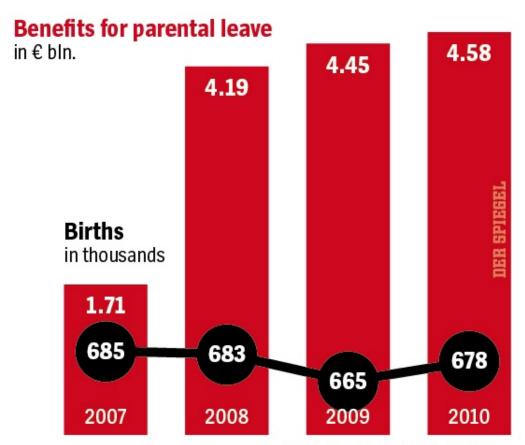
¹Utrecht University
²University of California Davis
³Georg-August-University Göttingen
⁴Tilburg University

International User Conference of the German Family Panel pairfam, Best Paper Award Talk, May 7th-8th 2015, Jena, Germany





Birthrates in Germany



Sources: German Family Ministry, Federal Statistical Office

- Germany spends large amounts of money on child benefits and parental leave
- Average number of children per woman = 1.4
- Which factors predict parenthood decisions?

Personality and Parenthood

 Cross-sectional association between personality traits and the number of children (e.g. Jokela, Alvergne, Pollet, & Lummaa, 2011)

Personality and Parenthood

 Cross-sectional association between personality traits and the number of children (e.g. Jokela, Alvergne, Pollet, & Lummaa, 2011)

 Personality traits predict the probability of having children (e.g. Jokela, Hintsa, Hintsanen, & Keltikangas-Järvinen, 2010)

Costs and Benefits of Parenthood

- Conscientiousness
- Extraversion
- Low openness to experiences



Benefits



 Introversion (Miller, 1992)



Costs

© Randy Glasbergen glasbergen.com



"This is the perfect watch for mothers. Every day is 36 hours!"

Gap in the Literature

 Which mechanisms mediate the association between personality and parenthood decisions?

Gap in the Literature

 Which mechanisms mediate the association between personality and parenthood decisions?

- What is the role of the partner in parenthood decisions?
 - Actor- and Partner-Effects?

Research Questions

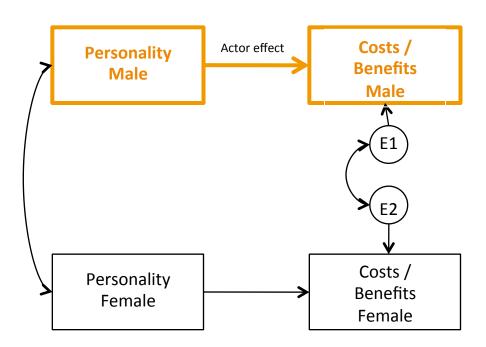
 Do one's own personality traits and those of the partner predict parenthood decisions?

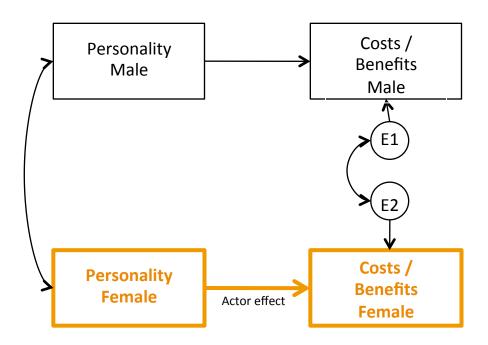
Research Questions

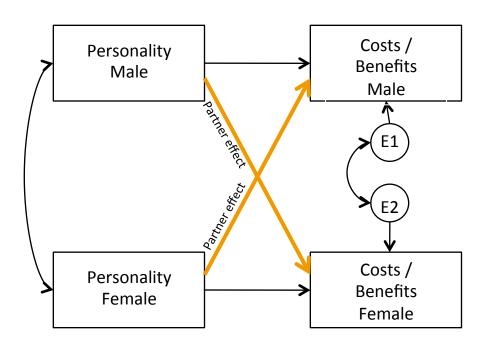
- Do one's own personality traits and those of the partner predict parenthood decisions?
- Is this association mediated by one's own and one's partner's expected costs and benefits about parenthood and by one's own and one's partner's intention to have children?

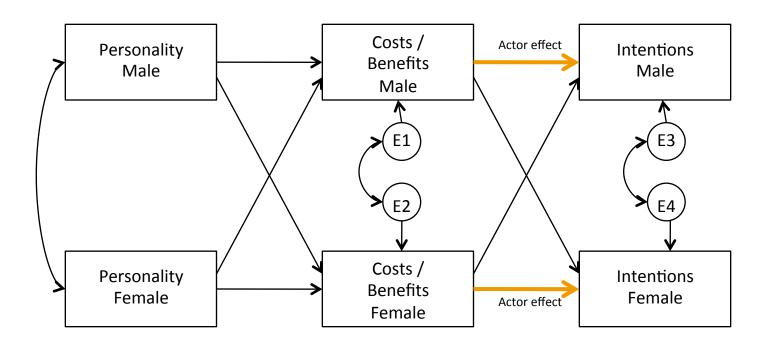
Research Questions

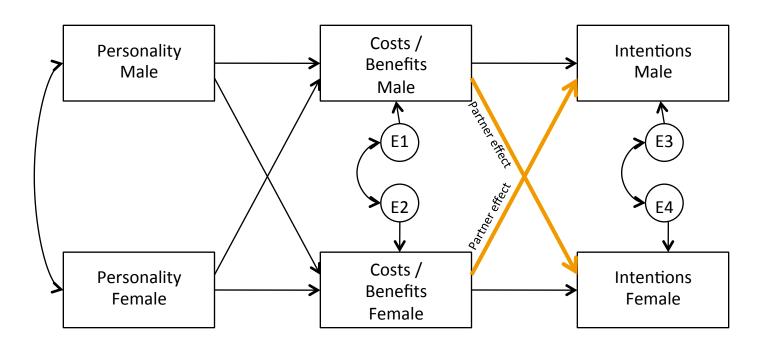
- Do one's own personality traits and those of the partner predict parenthood decisions?
- Is this association mediated by one's own and one's partner's expected costs and benefits about parenthood and by one's own and one's partner's intention to have children?
- Do these associations differ for the decision to have the first child versus to have an additional child?

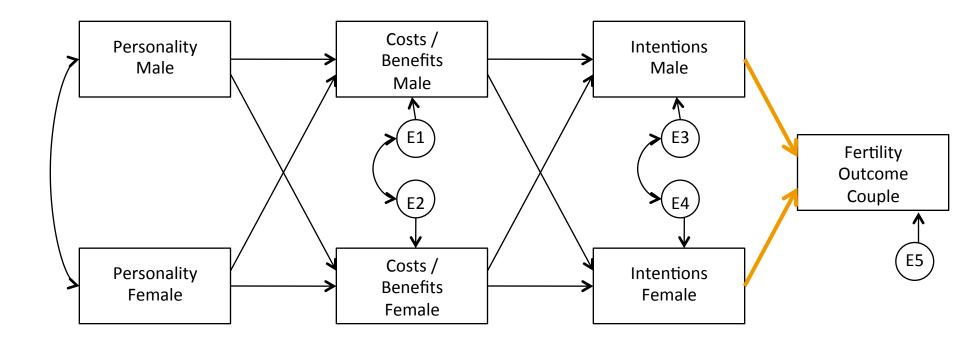


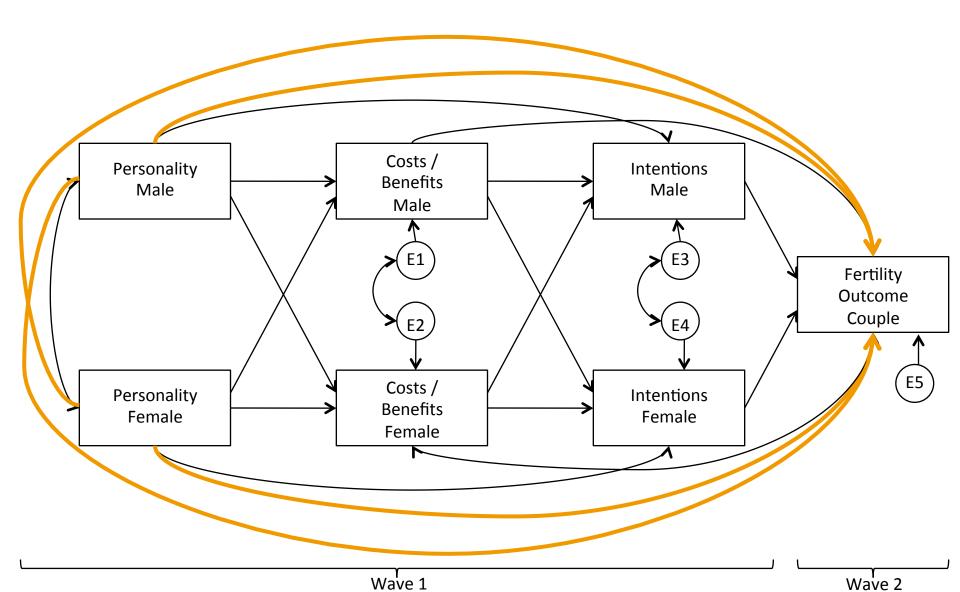














Sample

- Panel Analysis of Intimate Relationships and Family Dynamics (pairfam)
- N = 2,482 couples
 - Heterosexual
 - Fertile
 - 15-17 cohort excluded
- 2 cohorts: 25-27 and 35-37 years old in Wave 1
- 2 waves: 2008-2009 (W1) and 2009-2010 (W2)

Instruments

• Self-esteem α = .69, Shyness α = .69, Aggressiveness α = .80

Instruments

- Self-esteem α = .69, Shyness α = .69, Aggressiveness α = .80
- Expected costs and benefits of parenthood (VOC; Fitzner et al. 2007)
 - Expected benefits (α = .65)
 - Expected costs (α = .77)

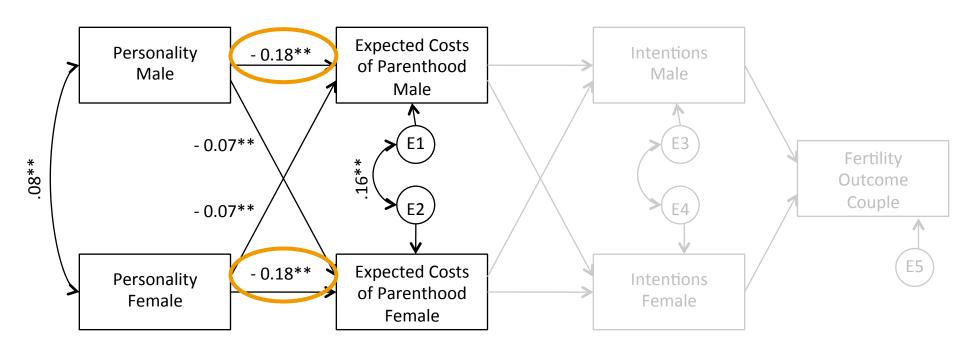
Instruments

- Self-esteem α = .69, Shyness α = .69, Aggressiveness α = .80
- Expected costs and benefits of parenthood (VOC; Fitzner et al. 2007)
 - Expected benefits (α = .65)
 - Expected costs (α = .77)
- Intention to have a(nother)child in the next 2 years (Walper et al., 2008)

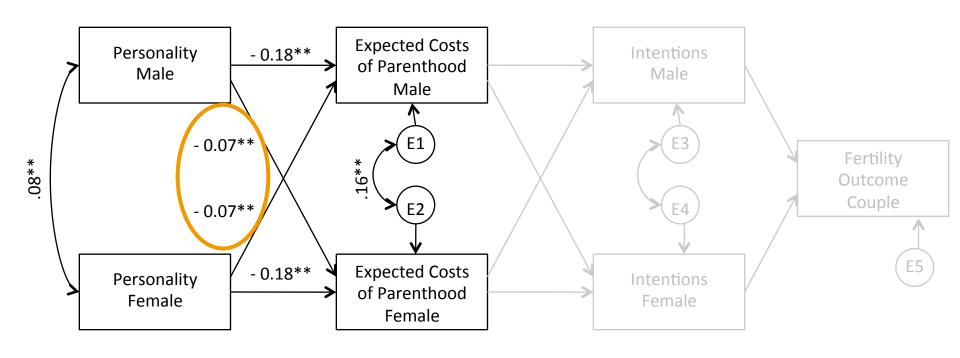
Instruments

- Self-esteem α = .69, Shyness α = .69, Aggressiveness α = .80
- Expected costs and benefits of parenthood (VOC; Fitzner et al. 2007)
 - Expected benefits (α = .65)
 - Expected costs (α = .77)
- Intention to have a(nother)child in the next 2 years (Walper et al., 2008)
- Parenthood decisions: Trying to become pregnant, pregnant or had a child
 - 1st child
 - Additional child

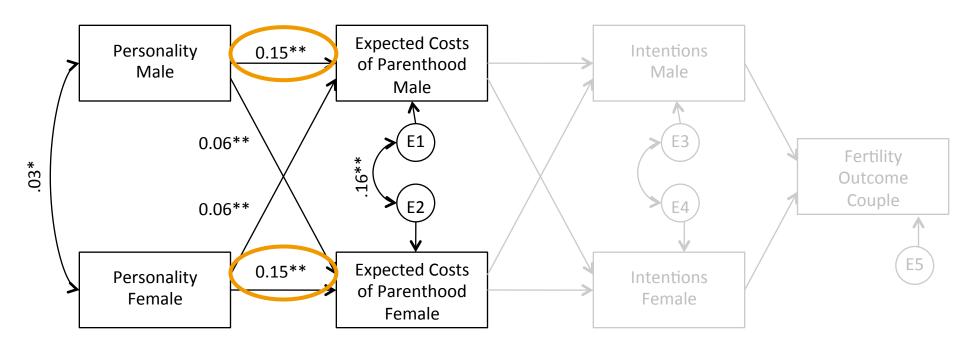
Self-esteem



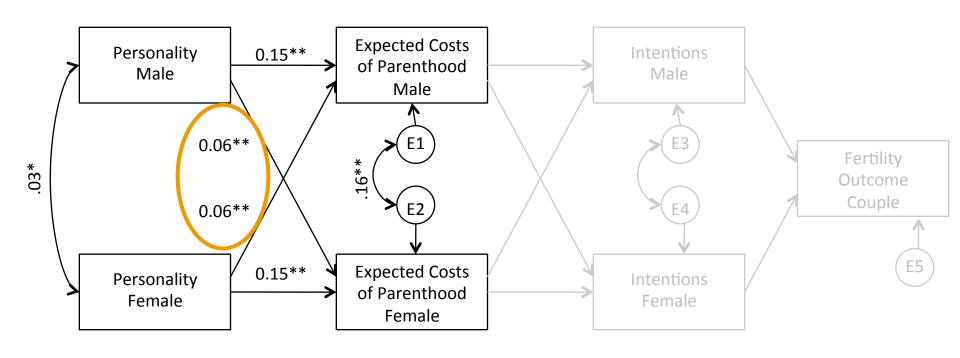
Self-esteem



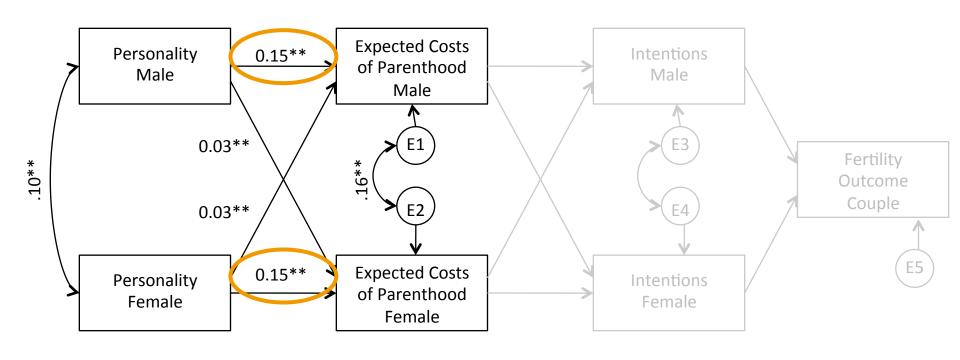
Shyness



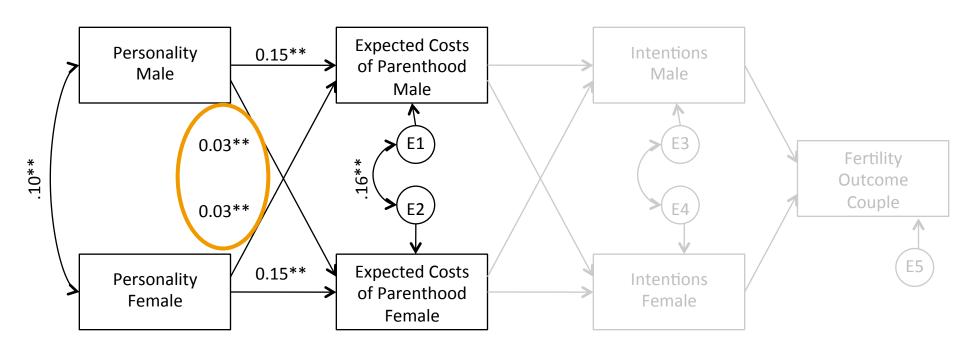
Shyness

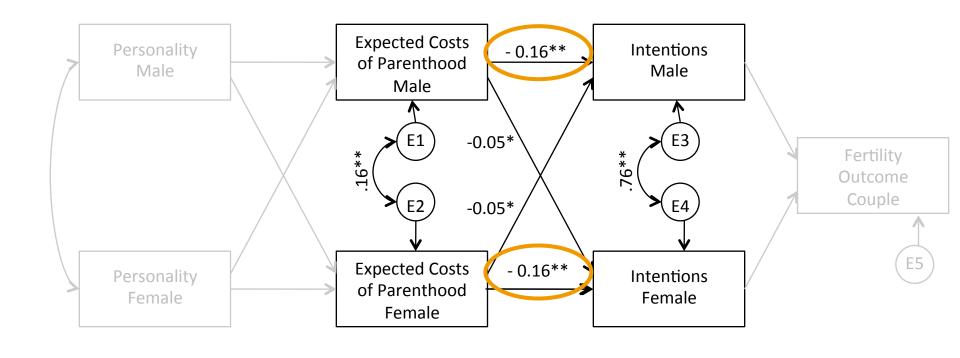


Aggressiveness



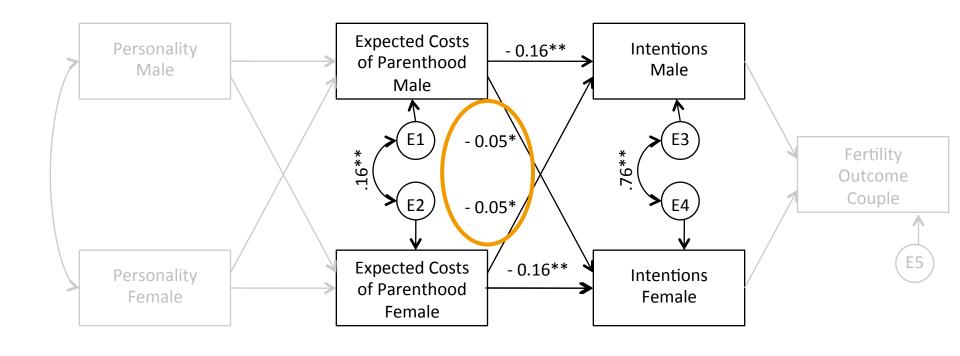
Aggressiveness

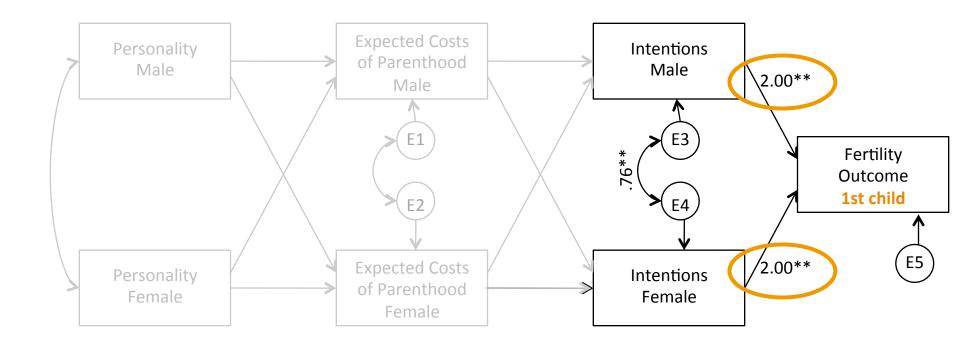




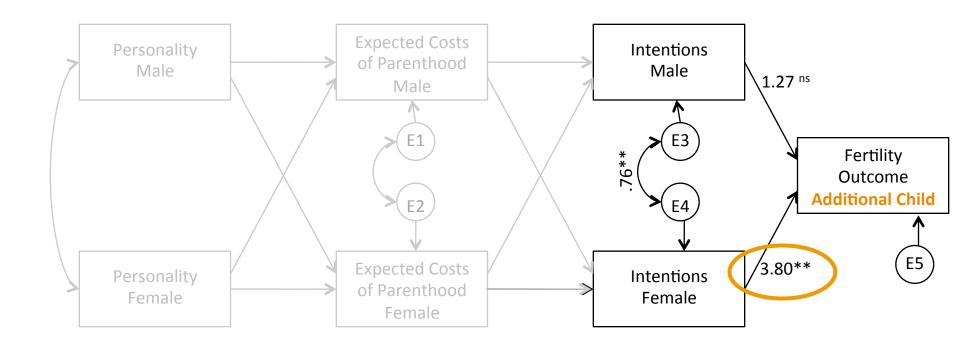
Wave 1

Wave 2



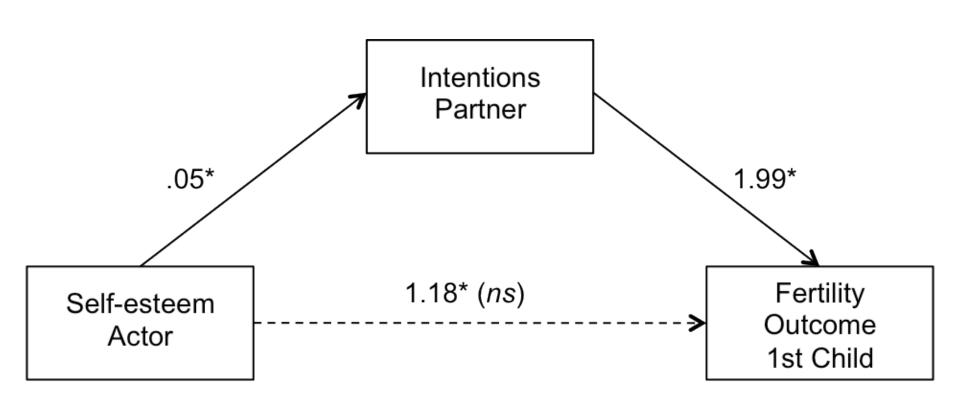


γ Wave 1 Wave 2

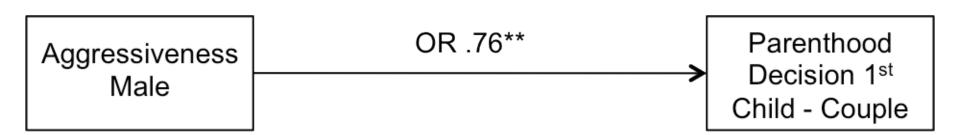


Wave 1

Wave 2



Results



Personality ←→ expected costs (Actor and Partner)

- Personality ←→ expected costs (Actor and Partner)
- Expected costs ← intention (Actor and Partner)

- Personality ←→ expected costs (Actor and Partner)
- Expected costs ← intention (Actor and Partner)
- Intention → parenthood decision

- Personality ←→ expected costs (Actor and Partner)
- Expected costs ← intention (Actor and Partner)
- Intention → parenthood decision
- The self-esteem of both partners and the aggressiveness of the male predict parenthood decisions, but only for the first child

- Personality ←→ expected costs (Actor and Partner)
- Expected costs ← intention (Actor and Partner)
- Intention → parenthood decision
- The self-esteem of both partners and the aggressiveness of the male predict parenthood decisions, but only for the first child
- The association between self-esteem and parenthood decision is mediated by the intention of the partner

Personality plays an important role in the reproductive process

- Personality plays an important role in the reproductive process
 - Expected costs

- Personality plays an important role in the reproductive process
 - Expected costs
 - Intentions

- Personality plays an important role in the reproductive process
 - Expected costs
 - Intentions
 - Actual behavior (for self-esteem and aggressiveness)

- Personality plays an important role in the reproductive process
 - Expected costs
 - Intentions
 - Actual behavior (for self-esteem and aggressiveness)
- The role of the partner in parenthood expected costs, intentions, and decisions should not be ignored

Thank you!

Contact: R.Hutteman@uu.nl

Hutteman, R., Bleidorn, W., Penke, L., & Denissen, J. J. A. (2013). It takes two: A longitudinal dyadic study on predictors of fertility outcomes. Journal of Personality, 81, 487-498.







Back-up

Items Value of Children

Living with children can have both pleasant and unpleasant aspects. I will now show you a list with some expectations that you may or may not associate with children. Please indicate how strongly you expect or worry the following things will occur as a result of having children.

·How strongly do you expect...

- 1.... that with children you will stay young longer?
- 2.... to have an especially close emotional relationship with your children?
- 3. ... that your standing in your social network will increase because of your children?
- 4.... that your adult children will be there for you when you are in need?
- 5. ... that you will get new ideas from your adult children?

•Let's now talk about the unpleasant aspects. How strongly do you worry...

- 1.... that you will be able to afford less with children?
- 2. ... that children will put you under nervous strain?
- 3.... that with children you will not accomplish your professional goals?
- 4.... that with children you will stand out in a negative way in public?
- 5.... that children will limit your personal freedom?
- Not at all 1 2 3 4 5 Very strongly

Overview Parenthood Decisions

- Total N = 2,482
- Trying to become pregnant 1st child N = 66
- Trying to become pregnant again N = 48
- Pregnant with 1st child N = 43
- Pregnant with child again N = 61
- Had 1st child N = 66
- Became parents again N = 83
- Total parenthood decisions N = 342 couples (13.8%)
 - -N = 159 for the first child (6.4%)
 - -N = 183 for an additional child (7.4%)

Descriptives Table

Table I Means, Standard Deviations, and Zero-Order Correlations of all Study Variables

	1	2	3	4	5	6	7	8	9	10	П	12	13	14
I. SE ♂	_													
2. SE ♀	.13****	_												
3. Shy ♂	37***	07***	_											
4. Shy ♀	06***	44***	.05*	_										
5. Agg ♂	23****	08****	.15****	.04	_									
6. Agg ♀	07***	28****	.04*	.18***	.11****	_								
7. PE ♂	.09****	02	07***	.03	02	02	_							
8. PE ♀	.01	.09****	03	05*	004	05**	.23***	_						
9. NE ♂	19***	10***	.18****	.08****	.17****	.07***	09****	09**	_					
10. NE ♀	09***	18***	.07***	.15***	.04*	.20***	09***	02	.29***	_				
II. Inten ♂	.03	.07**	.002	02	02	06*	.002	.08**	13****	10***	_			
I2. Inten ♀	.05*	.01	01	.04	01	01	.03	.01	08**	15***	.70***	_		
13. Dec 1st	.06*	.03	03	.03	06*	03	.03	.04	.01	02	.32***	.29****	_	
14. Dec add	.01	.05	01	003	.04	01	.02	.01	05	09**	.31***	.37****	.13***	_
М	4.15	3.93	2.07	2.21	2.27	2.52	3.49	3.49	2.17	2.34	2.77	2.78	159 (10.5) ¹	183 (12.1)
SD	.73	.85	.83	.89	.94	.99	.73	.69	.76	.84	1.01	1.06	_	_

Note. SE = Self-esteem; Shy = Shyness; Agg = Aggressiveness; PE = Positive expectations; NE = Negative expectations; Inten = Intentions; Dec 1 st = Decision to have the first child; Dec add = Decision to have an additional child.

¹Values for nominal variables refer to the frequency of having a value of 1, percentages between brackets.

^{*}p < .05. **p < .01. ***p < .001.

Results Table 1

Table 2a Path Coefficients of the Longitudinal Actor Partner Interdependence Models (APIMs)

			Personality trait								
			Model I: Sel	f-esteem	Model 2: Shyness		Model 3: Aggressiveness				
Effect	Path		В	SE	В	SE	В	SE			
Actor	a	Personality \rightarrow NE	18***	.01	.15***	.01	.15***	.01			
Partner	Ь	Personality \rightarrow NE	07***	.01	.06****	.01	.03***	.01			
Actor	a'	Personality \rightarrow PE	******	.01	05***	.01	03*ok	.01			
Partner	b ′	Personality \rightarrow PE	01	.01	.021	.02	004	.01			
		•			02 ²	.02					
Actor	С	$NE \rightarrow Intention$	16***	.02	16***	.02	16 ^{*okok}	.02			
Partner	d	$NE \rightarrow Intention$	−.05**	.02	0 7 **	.02	06 [*] °k	.02			
Actor	c'	$PE \rightarrow Intention$.03	.02	.02	.03	.03	.03			
Partner	ď	$PE \rightarrow Intention$.03	.03	.03	.03	.03	.03			
Actor	е	Personality \rightarrow Intention	002	.02	.05*	.02	.02	.02			
Partner	f	Personality → Intention	.05*	.02	.02	.02	−.05* ¹	.02			
		,					.02 ²	.02			
	g	Personality \bigcirc \leftrightarrow Personality \bigcirc	******	.01	.03*	.01	.10**	.02			
	h	NE ♂ ↔ NE ♀	.16***	.01	.17***	.01	.1 7 ***	.01			
	h'	PE ♂ ↔ PE ♀	.12***	.01	. I I *olok	.01	.11**	.01			
	i	Intention ♂ ↔ Intention ♀	.75***	.03	.75***	.03	.76***	.03			

Note: N = 2,482 for all models. NE = negative expectations; PE = positive expectations. Columns contain path coefficients from three separate APIMs (i.e., for self-esteem, shyness, and aggressiveness separately). Prime symbol (') refers to positive expectations.

¹Path from female variable to male variable. ²Path from male variable to female variable.

p < .05. p < .01. p < .001.

Results Table II

Table 2b Odds Ratios for Associations With Fertility Outcomes Within the Longitudinal Actor Partner Interdependence Models (APIMs)

		Personality trait								
		Model I:	OR Self-esteem	Model 2	2: OR Shyness	Model 3: OR Aggressiveness				
	Path	First child	Additional child	First child	Additional child	First child	Additional child			
j	Personality → Fertility outcome	1.17 [†]	1.02	.98	.99	.76*** ¹	1.10			
k	Negative expectations → Fertility outcome	1.16 [†]	.88.	1.13	.88.	1.16 [†]	.85*			
k′	Positive expectations → Fertility outcome	1.07	1.01	1.08	1.00	1.07	1.00			
I	$\begin{array}{c} \text{Intention} \stackrel{'}{\rightarrow} \text{Fertility} \\ \text{outcome} \end{array}$	2.00***	1.27 ¹ 3.80 ^{30 0 0} 2	2.01***	1.28 ¹ 3.73****	2.01***	1.27 ¹ 3.84****			

Note: N = 2,482 for all models. Columns contain path coefficients from three separate APIMs (i.e., for self-esteem, shyness, and aggressiveness separately). Prime symbol (') refers to positive expectations.

Path from male variable. Path from female variable.

 $^{^{\}dagger}p < .10. *p < .05. **p < .01. ***p < .001.$