

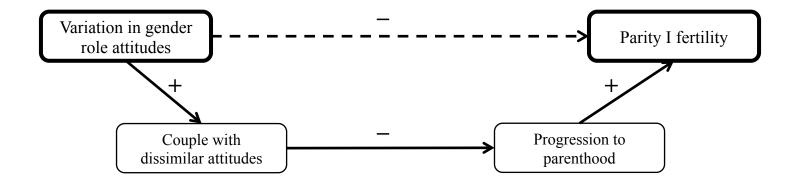
Intra-Couple (Dis)Similarity on Gender Role Attitudes and the Transition to Parenthood

Ansgar Hudde & Henriette Engelhardt-Wölfler

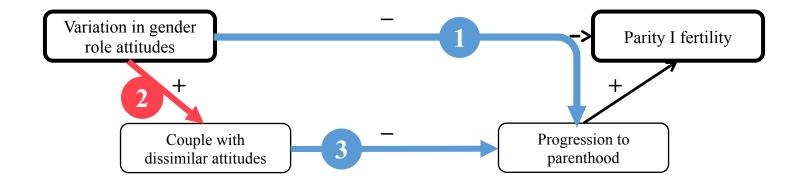
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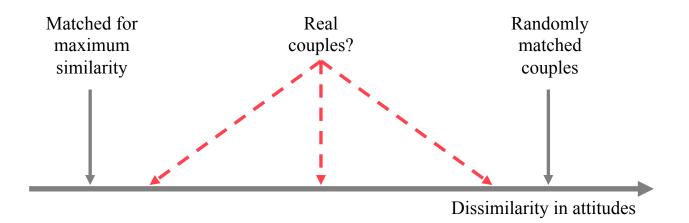
- Hudde, A. Societal Agreement on Gender Role Attitudes and Childlessness in 38 Countries. *European Journal of Population*, 1-23.
- Hudde, A., & Engelhardt, H. Heterogamy in Gender Role Attitudes Among Young Couples Evidence from Germany [in progress]
- Hudde, A. & Engelhardt, H. Intra-Couple (Dis)Similarity in Gender Role Attitudes and the Transition to Parenthood [R&R]

1. How similar are partners in their gender role attitudes?

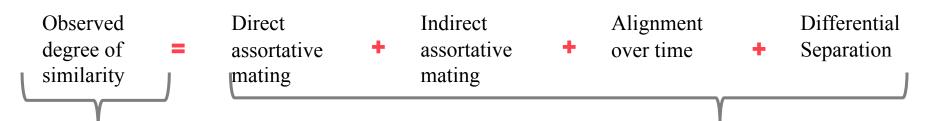
2. How does this similarity come about? [Under which behavioural assumptions would we find the observed patterns?]

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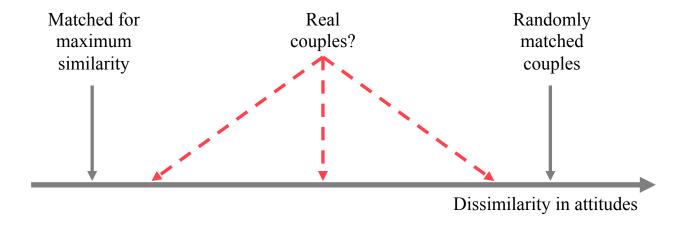


Research Question



1. How similar are partners in their gender role attitudes?

2. How does this similarity come about? [Under which behavioural assumptions would we find the observed patterns?]







Direct
= assortative
mating

Indirect assortative mating

Alignment over time

- ✓ Relevance for relationship
- Lack of information
 (e.g. Fallesen & Breen, 2016; Brüderl & Kalter, 2001)
- ➤ False consensus bias → overestimation of similarity (e.g. Ross, Greene, & House, 1977; Kenny & Acitelli, 2001)
- **★** Low importance in stage of partnership formation





Directassortativemating

Indirect
assortative
mating

Alignment over time

- ✓ Assortative mating on e.g. education, religiosity, or political ideology is happening (e.g. Blossfeld 2009; Schwartz 2013)
- ? Are these variables good proxies for gender role attitudes?
- ? Do they proxy attitudes of women and men in the same way?





Directassortativemating

Indirect assortative mating

Alignment over time

- ✓ Theoretically: mutual influence & common experiences
- ? Only limited alignment in attitudes (Feng & Baker, 1994; Kalmijn, 2005; Luo & Klohnen, 2005; Schober & Scott, 2012; Watson et al., 2004)





Direct
assortative
mating

Indirect assortative mating

Alignment over time

DifferentialSeparation

✓ To some degree

(Hohmann-Marriott, 2006; Arranz Becker, 2013)



Data: German Family Panel

Dyadic information: info from both partners

Case selection:

- [n=4,029] Anchor is in opposite-sex relationship & partner participates in survey
- [n= 2,313] Anchors born 1981-1983 [Ø age at wave 1: women = 25; men = 27] Duration of relationship max. 7 years [= trade-off; different values as sensitivity analysis]
- [n= 666] Both partners are childless [transition parenthood → change in attitudes] Non-missing on all attitudinal items for both partners
- [n=641] Non-missing education and religiosity for both partners
- [n=635] "strange cases" dropped: one partner is <18 or >45 [1% of couples] West: 422 | East: 193





Gender Role Attitudes: Items

Gender roles: women

- 1. Frauen sollten sich stärker um die Familie kümmern als um ihre Karriere.
- 2. Ein Kind unter 6 Jahren wird darunter leiden, wenn seine Mutter arbeitet.

Gender roles: men

- 3. Männer sollten sich genau so an der Hausarbeit beteiligen wie Frauen.
- 4. Kinder leiden oft darunter, dass sich ihre Väter zu sehr auf die Arbeit konzentrieren.
- → Four items do not seem to represent 1 underlying dimension [Cronbach's Alpha <.6] (compare Nitsche & Grunow, forthcoming; Knight & Brinton, 2017)



Gender Role Attitudes: Measuring dissimilarity

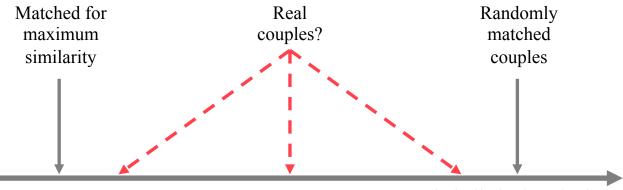
To how many of the 4 items did the partners give dissimilar answers?

Dissimilar answer on an item = at least 2 points on the Likert-Scale apart

- [In the paper, but not in this presentation]: three levels of measurement:
 - Number of dissimilar items out of all items
 - Number of dissimilar items on male or female roles (items 1&2 or 3&4)

(Different measures in sensitivity analyses: linear & square absolute difference scores)





Dissimilarity in attitudes

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Matched for Maximum Similarity

Challenge: matching to maximize similarity on multiple dimensions

Problem: [To us,] It seems impossible to test all possible matches: factorial of 422 has 926 digits.

422! =



Des.: Method

Matching for Maximum Similarity: Simulating Speed-Dating. The 'Rules':

- Start with high expectations and reduce expectations over time
- Matched couples leave the table
- Continue dating until everyone has found a match → potentially meet same person numerous times

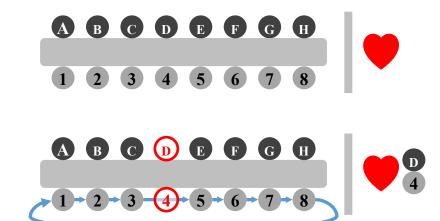
1st round: expectation = partner with similar answers to all 4 items

1st round: expectation = partner with similar answers to all 4 items

Initial ,seating': random

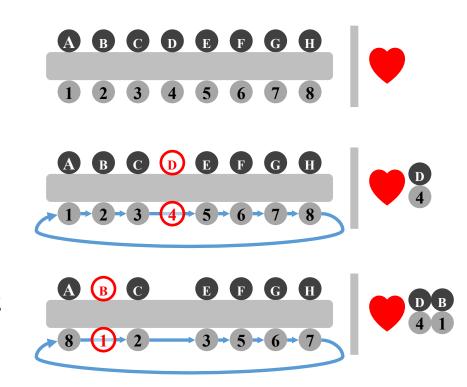


1st round: expectation = partner with similar answers to all 4 items



D&4 = match \rightarrow leave table; rest: rotate.

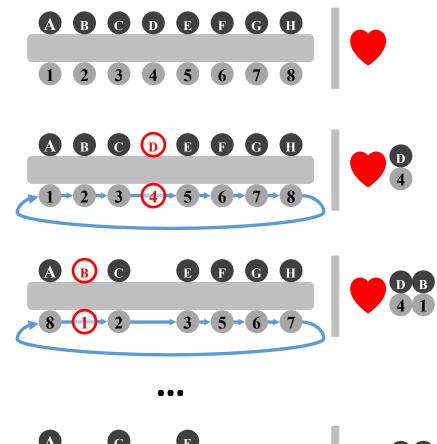
1st round: expectation = partner with similar answers to all 4 items



B&1 = match \rightarrow leave table; rest: rotate.

•••

1st round: expectation = partner with similar answers to all 4 items



6 people unmatched \rightarrow no partner with 0 diss. points available \rightarrow ROUND 2



 2^{nd} round: expectation = partner with similar answers to 3 out of four items

A&1 were no match in round 1, but are in round 2.



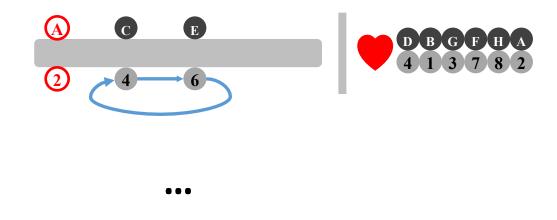
 2^{nd} round: expectation = partner with similar answers to all 4 items



 \rightarrow ROUND 3 \rightarrow ROUND 4

•••

 2^{nd} round: expectation = partner with similar answers to all 4 items



EVERYONE IS MATCHED.

Matching is likely not *the perfect one*, but it is Paretooptimal: we could not give anyone a ,better' match without at the same time giving someone else a worse match.



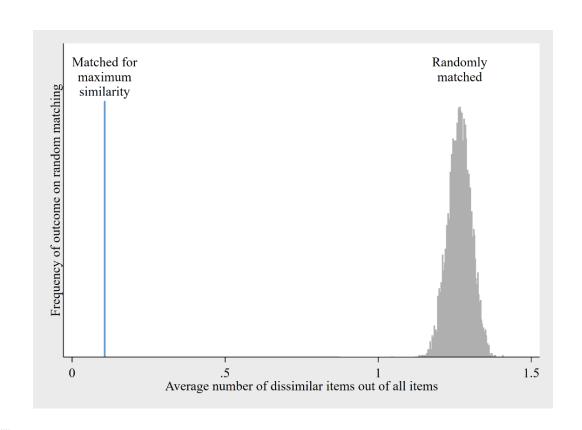


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Direct assortative mating

Indirect assortative mating

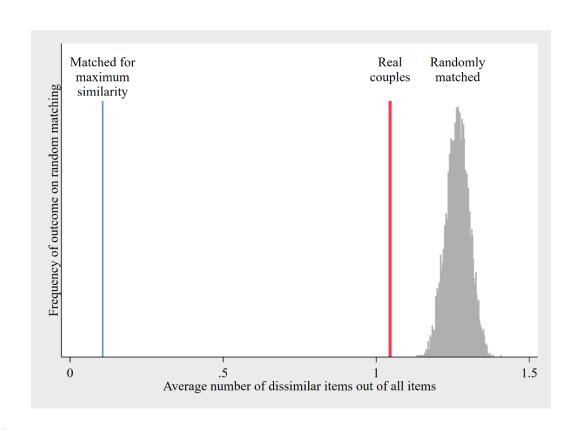
Alignment over time



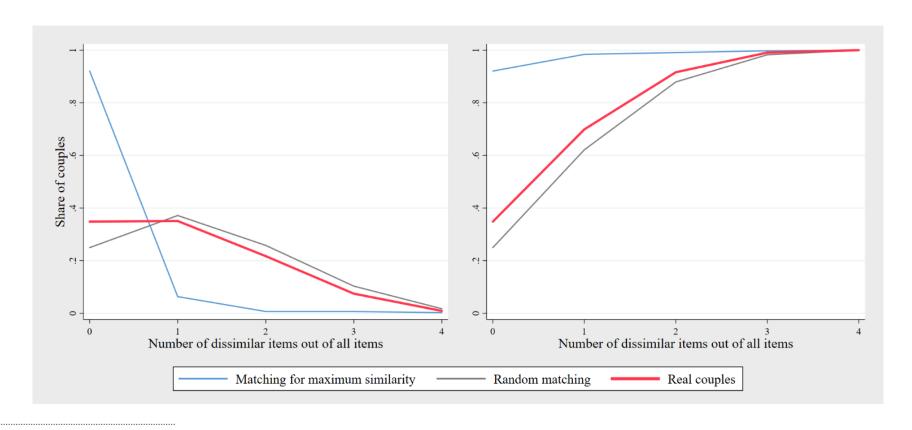
Direct assortative mating

Indirect assortative mating

Alignment over time



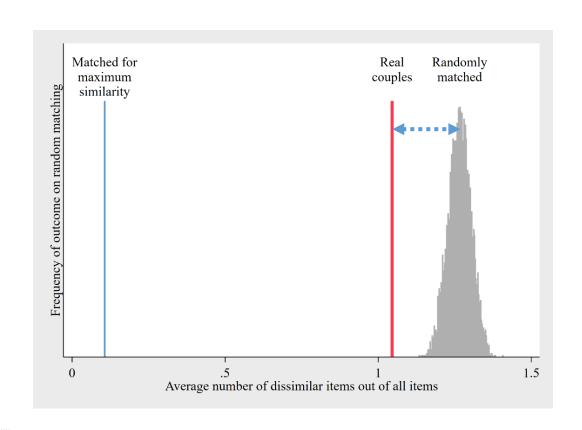




Direct
assortative
mating

Indirect
assortative
mating

Alignment over time



Direct assortative mating

Indirect
assortative
mating

Alignment over time

Differential Separation

Similarity in attitudes a by-product of matching on education and religiosity?

→ We match partners to maximize similarity in education and religiosity [method: same as matching for similarity in gender role attitudes]

Direct
assortative
mating

Indirect

assortative

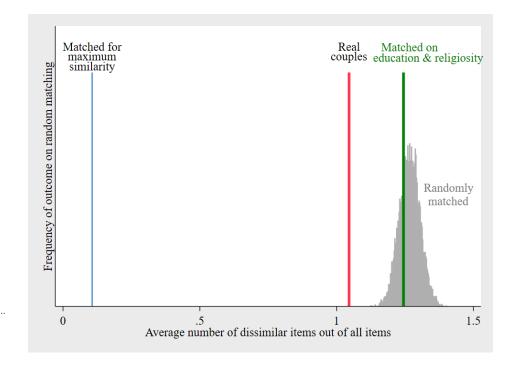
mating

Alignment over time

Differential Separation

Similarity in attitudes a by-product of matching on education and religiosity?

→ We match partners to maximize similarity in education and religiosity [method: same as matching for similarity in gender role attitudes]



Direct assortative mating

Indirect assortative mating

Alignment over time

Differential Separation

Do partners become more similar over time?

Fixed-effects panel regression models: duration of relationship (logged). Gender Role Attitudes in waves 1, 3,5, & 7.

Direct
assortative
mating

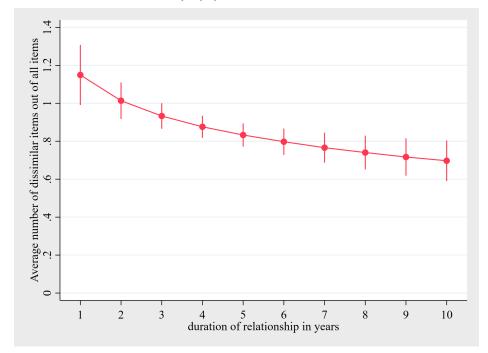
Indirect assortative mating

Alignment over time

Differential Separation

Do partners become more similar over time?

Fixed-effects panel regression models: duration of relationship (logged). Gender Role Attitudes in waves 1, 3,5, & 7.



Direct
assortative
mating

Indirect assortative mating Alignment over time

Differential Separation

Are dissimilar partners more likely to separate?

Logistic regression models:

 $separation_{wave_max} = \beta_0 + \beta_1 * dissimilarity in attitudes_{wave_1} + \varepsilon$

Direct
assortative
mating

Indirect assortative mating

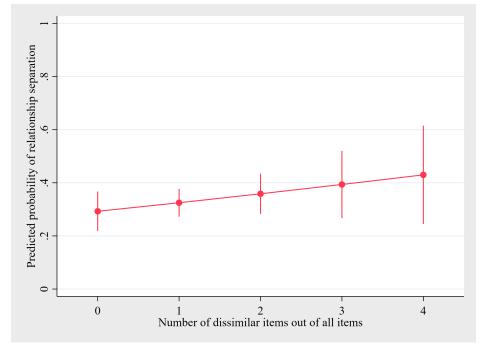
Alignment over time

DifferentialSeparation

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 $separation_{wave_max} = \beta_0 + \beta_1 * dissimilarity in attitudes_{wave_1} + \varepsilon$





Robustness checks & sensitivity analyses for matching and regression analyses

- ✓ Different measures for dissimilarity: linear and square absolute difference scores
- ✓ Different sample restrictions for maximum duration of relationship: \pm 3 years
- ✓ Different sample: cohort 3 (mid- to late thirties at wave 1)
- ✓ Indirect assortative mating: different measure for dissimilarity & weightings of education and religiosity
- ✓ Matched for maximum similarity: is the sample size big enough?

Conclusion

- Summary:
 - Real couples are not very far from random
 - Mechanism?
 - Direct assortative mating: little room left
 - Indirect assortative mating: only marginally
 - Alignment over time: rather strong
 - Differential separation: probably
- Drawbacks:
 - Gender role items probably not ideal
 - Average duration of relationship at wave 1: ~ 3 years
- Contribution:
 - Show: homogamy is *not* strong on a variable that is important for the functioning of a relationship & for macro-level demographic outcomes
 - Methodology: suitable & intuitive method to put (dis)similarity into perspective in a multidimensional setting

Thank for your attention!

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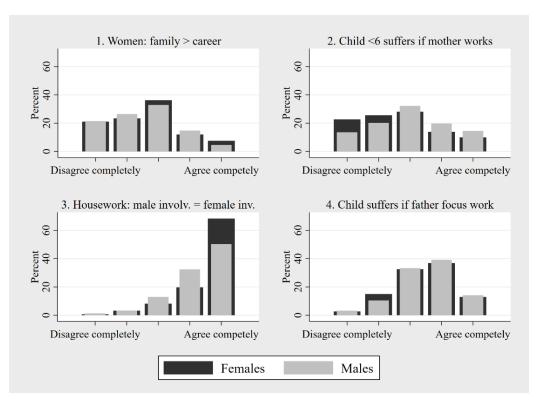


Figure 1. Responses to gender role items of female (n=442) and male (n=442) respondents. Western Germany.

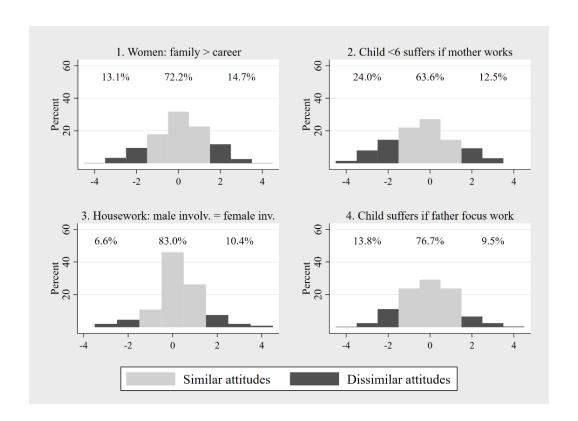


Figure 2. Difference scores (value of female partner minus value of male partner) for responses to gender role items. Positive values indicate that the female partner agrees with statement more than the male partner does, and vice versa. Western Germany (n=442).

Table 1. Descriptive summary table. Western Germany (n=422).

	Female partner		Male partner		Couple-level	
	Mean	SD	Mean	SD	Mean	SD
Gender Role Attitudes						
1. Women: family > career	2.62	1.16	2.54	1.12		
2. Child <6 suffers if mother works	2.63	1.25	3.01	1.23		
3. Housework: female involv. = male involv.	4.52	0.83	4.27	0.90		
4. Child suffers if father focus work	3.42	0.98	3.50	0.96		
Age	24.79	2.38	27.11	3.20		
Education. Share in group						
Lower secondary education (Volks- und Hauptschule)	.03		.02			
Lower secondary education (Realschule, Mittlere Reife)	.05		.02			
Upper secondary education vocational	.18		.32			
Upper secondary education general	.15		.05			
Post-secondary non tertiary education general	.17		.14			
First stage of tertiary education	.32		.43			

Table X. Associations between gender role attitudes, education, and religiosity for female and male partners. Spearman rank correlation coefficients (n=422). Western Germany. Education and religiosity are coded so that higher values represent higher education and higher religiosity.

	Educ	ation	Religiosity		
	Females	Males	Females	Males	
1. Women: family > career	-0.28***	-0.13*	0.04	0.23**	
2. Child < 6 suffers if mother works	-0.22***	-0.04	0.19***	0.22***	
3. Housework: female involv. = male involv.	0.03	-0.02	-0.10*	-0.21***	
4. Child suffers if father focus work	-0.04	-0.05	0.07	0.03	

 $^{^{+}}p < 0.10, ^{*}p < 0.05, ^{**}p < 0.01, ^{***}p < 0.001$

Table 2. Average dissimilarity in gender role attitudes between both partners in real and counterfactual matchings. Western Germany (n=422).

	Matched for maximum similarity	Real couples	Randomly matched couples	Matched by education and religiosity	range
Number of dissimilar items out of all items	0.14	1.05	1.27	1.23	0-4
Number of dissimilar items on female roles (items 1&2)	0.09	0.64	0.79	0.76	0-2
Number of dissimilar items on male roles (items 3&4)	0.05	0.40	0.47	0.47	0-2
Dissimilarity on item					
1. Women: family > career	.02	.28	.37	.35	0-1
2. Child < 6 suffers if mother works	.07	.36	.43	.41	0-1
3. Housework: female involv. = male involv.	.04	.17	.20	.20	0-1
4. Child suffers if father focus work	.01	.23	.27	.27	0-1

Table 3. Alignment over time: Effect of duration of relationship on similarity in gender role attitudes. Linear fixed-effects regression models. Western Germany.

	Number of dissimilar items out of all items	Number of dissimilar items on female roles (items 1&2)	Number of dissimilar items on male roles (items 3&4)	1. Women: family > career	2. Child < 6 suffers if mother works	3. Housework: female involv. = male involv.	4. Child suffers if father focus work
Duration of relationship, logged	-0.20*** (0.05)	-0.13*** (0.04)	-0.06 ⁺ (0.03)	-0.03 (0.05)	-0.17** (0.05)	-0.06 (0.05)	-0.06 (0.05)
Constant	1.14*** (0.08)	0.71*** (0.06)	0.43*** (0.05)	0.98*** (0.08)	1.34*** (0.08)	0.99*** (0.08)	0.80*** (0.07)
n: couples	275	275	275	275	275	275	275
n: couples X waves	692	692	692	692	692	692	692

Table 4. Differential separation: Effect of dissimilarity in gender role attitudes on separation by last wave of observation (1=separation; 0=relationship continues). Logistic regression models. Western Germany.

		Female	Male				
	All items	items	items				
	(1-4)	(1&2)	(3&4)	Item 1	Item 2	Item 3	Item 4
Number of dissimilar items out of all items	1.17						
	(0.15)						
Number of dissimilar items on female roles (items 1&2)		1.38^{+}					
		(0.25)					
Number of dissimilar items on male roles (items 3&4)			0.97				
			(0.22)				
Dissimilarity on item			` ,				
1. Women: family > career				1.66^{+}			
·				(0.46)			
2. Child < 6 suffers if mother works				, ,	1.24		
					(0.32)		
3. Housework: female involv. = male involv.					,	0.85	
						(0.26)	
4. Child suffers if father focus work						,	1.13
							(0.38)
Constant	0.52**	0.50***	0.62**	0.53***	0.57**	0.64**	0.60***
	(0.10)	(0.09)	(0.10)	(0.09)	(0.10)	(0.10)	(0.09)
AIC	370.0	368.3	371.4	368.1	370.7	371.1	371.3
Share of couples that separate by last observation	30.11%	30.11%	30.11%	30.11%	30.11%	30.11%	30.11%
n	297	297	297	297	297	297	297

Odds ratios displayed. Standard errors in parentheses. All models control for duration of observation with dummy-variables for last available wave. p < 0.10, p < 0.05, p < 0.05, p < 0.01, p < 0.01,

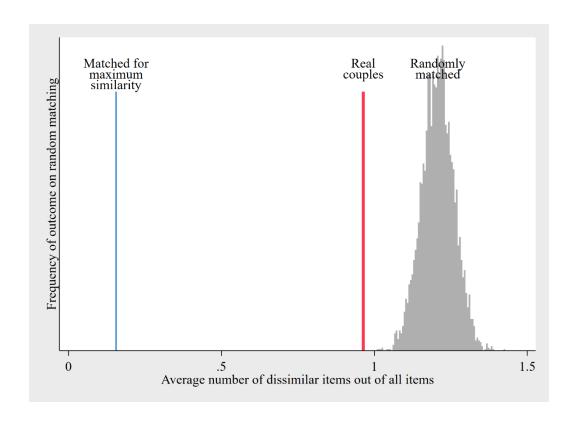


Figure E3. Average number of items with dissimilar answers, by type of matching. Random matching is performed 10,000 times. Western Germany (n=193).