

To be(tween) or not to be(tween)? Combining between- and within-subjects design characteristics in experimental auctions

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In the beginning ...



- Why?
- Because of Twinning H2020 project AgriFoodBoost: reduce disparities in country research and innovation performance in the EU
- Enhance networking activities between the research institutions of the Widening countries and internationally-leading counterparts at EU level
- Twinning aims at significantly strengthening a defined field of research in a university or research organisation from a Widening country by linking it with at least two internationally-leading research institutions from two different Member States or Associated Countries

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- Workshops on various topics: econometrics, experimental economics, scientific writing/publishing
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- The opening of the EU market and extensive support from CAP led to an increase in acreage and production of organic apples in 2013-2022.
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Motivation



- The Zagreb market is the largest regional market in Croatia.
- The primary objective of the study was to examine how much consumers in this market are willing to pay for an apple from organic farming compared to an apple from conventional farming and ...
- We also investigated the influence of origin on the WTP for organic and conventional apples for the following reasons
 - to test the hypothesis that consumers prefer a domestic apple over a non-domestic apple and
 - to obtain more accurate information for domestic growers.
- 2×2 design [organic vs. conventional] \times [local vs. non-local]

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Experimental design



	Bid for ...	Bid for ...	Within subject effect	N
Treatment 1	Organic - Local	Conventional - Local	{Organic Local}	56
Treatment 2	Organic - Nonlocal	Organic - Local	{Local Organic}	48
Treatment 3	Conventional - Local	Conventional - Nonlocal	{Local Conventional}	55
Treatment 4	Conventional - Nonlocal	Organic - Nonlocal	{Organic Non-local}	47
Total				206

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 - visual treatment: only photos of the apples shown to subjects when they bid
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- 8 subjects per session, 26 sessions in total (two sessions conducted with four subjects)
- Morning and afternoon sessions over weekdays (53.88% in afternoon)
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- Subjects earned an additional endowment: zero counting task; relatively easy (subjects earned an average of €4.82 ; $sd = 0.38$)
- All instructions were shown on screen during the experiment
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Methods: Zero counting task



Remaining time [sec]: ↑

Round 3 of 10



0	0	1	1
1	0	0	1
1	0	0	1
1	1	1	1

Please count the number of zeros in the matrix:

Methods: Practice auction

This toothpaste is made with Cannabis	This toothpaste is made with Cannabis
	
<p style="text-align: center;">Trial Round</p> <p style="text-align: center;">Please submit your offer using the buttons below:</p>	<p style="text-align: center;">Trial Round</p> <p style="text-align: center;">Please submit your offer using the buttons below:</p>
<input type="button" value="-1 ct"/> <input type="button" value="-5 ct"/> <input type="button" value="-10 ct"/> <input type="button" value="-50 ct"/> <input type="button" value="-1€"/> <input type="button" value="-5€"/>	<input type="button" value="-1 ct"/> <input type="button" value="-5 ct"/> <input type="button" value="-10 ct"/> <input type="button" value="-50 ct"/> <input type="button" value="-1€"/> <input type="button" value="-5€"/>
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Methods: Practice auction

<p>This toothpaste is made with Cannabis</p>	<p>This toothpaste is made with Cannabis</p>
	 <div data-bbox="683 346 975 563" style="position: absolute; top: 10px; left: 10px; border: 1px solid gray; padding: 5px;"> <p>Dialog</p> <p>Are you sure you want to finalize your bid?</p> <p>Yes <input type="button" value="Yes"/></p> <p>No <input type="button" value="No"/></p> </div>
<p>Trial Round</p> <p>Your current bid is (in Euros): 1.50 Your current bid is (in K€): 11.21</p> <p style="text-align: right;"> <input type="button" value="← Reverse bid"/> <input type="button" value="Finalize my bid →"/> </p>	<p>Trial Round</p> <p>Your current bid is (in Euros): 1.80 Your current bid is (in K€): 12.06</p> <p style="text-align: right;"> <input type="button" value="← Reverse bid"/> <input type="button" value="Finalize my bid →"/> </p>
<p>-1 ct -5 ct -10 ct -50 ct -1€ -5€</p>	<p>-1 ct -5 ct -10 ct -50 ct -1€ -5€</p>
<p>+1 ct +5 ct +10 ct +50 ct +1€ +5€</p>	<p>+1 ct +5 ct +10 ct +50 ct +1€ +5€</p>

Methods: Hedonic evaluation

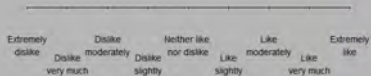
You can now see pictures of two different apples. Please carefully look at the pictures and answer the following questions.



Apple A

Just judging from appearance, what is your evaluation for Apple A? (choose from the horizontal bar)

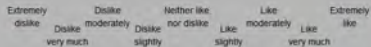
I choose:



Apple B

Just judging from appearance, what is your evaluation for Apple B? (choose from the horizontal bar)

I choose:



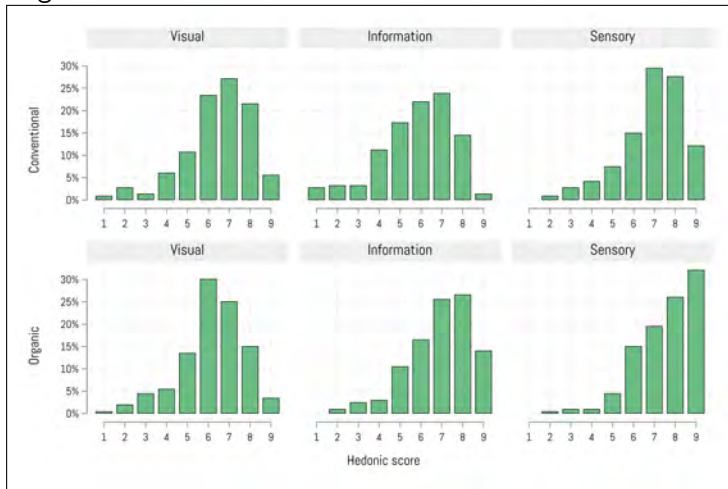
Continue >>

Methods: Bidding

This apple is Organic and is produced Locally	This apple is Organic and is NOT produced Locally
<p data-bbox="271 329 348 363">EKOLOŠKA LOKALNA</p>  <p data-bbox="539 542 595 560">Apple A</p>	<p data-bbox="889 329 989 363">EKOLOŠKA NIJE LOKALNA</p>  <p data-bbox="1157 542 1214 560">Apple B</p>
<p data-bbox="303 622 385 640">Round 2</p> <p data-bbox="203 681 454 695">Number of people in your auction group: 4</p> <p data-bbox="220 733 467 746">Please submit your offer using the buttons below:</p>	<p data-bbox="920 594 1002 612">Round 2</p> <p data-bbox="820 653 1071 667">Number of people in your auction group: 4</p> <p data-bbox="920 705 1071 718">Your current bid is: 1.00</p> <p data-bbox="889 729 1071 742">Your current bid is (in Kn): 7.54</p> <p data-bbox="1044 791 1149 809"><< Review bid</p> <p data-bbox="1157 791 1259 809">Finalize my bid >></p>
<p data-bbox="79 832 107 846">-1 ct</p> <p data-bbox="175 832 203 846">-5 ct</p> <p data-bbox="271 832 312 846">-10 ct</p> <p data-bbox="371 832 408 846">-50 ct</p> <p data-bbox="477 832 504 846">-1€</p> <p data-bbox="587 832 614 846">-5€</p>	<p data-bbox="696 832 724 846">-1 ct</p> <p data-bbox="793 832 820 846">-5 ct</p> <p data-bbox="889 832 930 846">-10 ct</p> <p data-bbox="975 832 1016 846">-50 ct</p> <p data-bbox="1094 832 1122 846">-1€</p> <p data-bbox="1204 832 1232 846">-5€</p>
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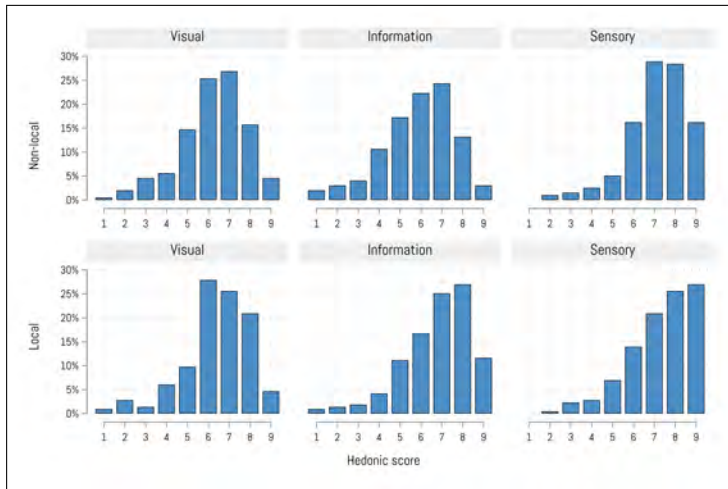
Hedonic evaluations

Organic vs. conventional

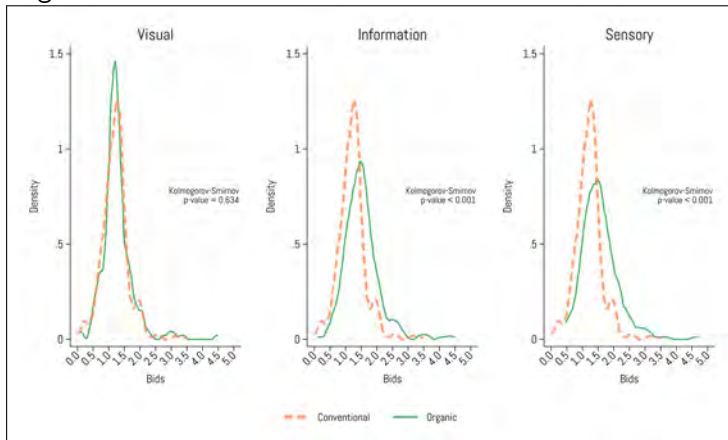


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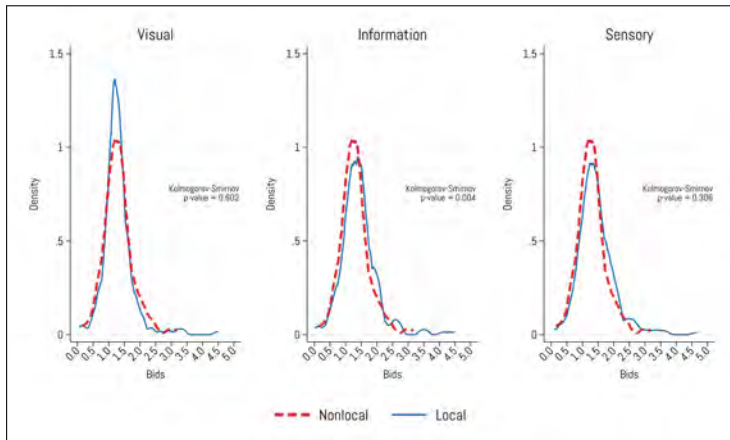
Local vs. nonlocal



Organic vs. conventional



Local vs. nonlocal



Econometrics: Within-subjects



	Treatment 1 (Organic Local) (1)		Treatment 4 (Organic Nonlocal) (2)		Treatment 2 (Local Organic) (3)		Treatment 3 (Local Conventional) (4)	
Constant	0.212	(0.596)	-1.345*	(0.685)	1.330	(1.112)	1.118*	(0.575)
Local					0.052	(0.037)	-0.079***	(0.029)
Organic	0.017	(0.038)	-0.071**	(0.031)				
R2: Information	-0.113	(0.075)	-0.055	(0.055)	0.144*	(0.081)	-0.063	(0.066)
R3: Taste	-0.037	(0.083)	-0.136**	(0.054)	0.110	(0.101)	-0.103	(0.065)
Organic × R2	0.303***	(0.072)	0.213***	(0.065)				
Organic × R3	0.199***	(0.067)	0.269***	(0.062)				
Local × R2					0.068	(0.060)	0.137***	(0.046)
Local × R3					0.011	(0.050)	0.129***	(0.048)

Econometrics: Between-subjects

	Treatment 2 vs. 3 (Organic local) (1)		Treatment 2 vs. 3 (Organic Nonlocal) (2)		Treatment 1 vs. 4 (Local Organic) (3)		Treatment 1 vs. 4 (Local Conventional) (4)	
Constant	0.693	(0.576)	0.562	(0.522)	-0.547	(0.536)	0.126	(0.482)
Local					0.162*	(0.092)	0.029	(0.077)
Organic	0.128	(0.085)	0.007	(0.093)				
R2: Information	0.056	(0.071)	-0.059	(0.070)	0.190**	(0.081)	-0.109	(0.069)
R3: Taste	-0.033	(0.073)	-0.102	(0.072)	0.210**	(0.086)	-0.136**	(0.068)
Organic × R2	0.156	(0.131)	0.209*	(0.114)				
Organic × R3	0.172	(0.120)	0.292**	(0.122)				
Local × R2					-0.003	(0.130)	-0.002	(0.100)
Local × R3					-0.050	(0.131)	0.100	(0.110)

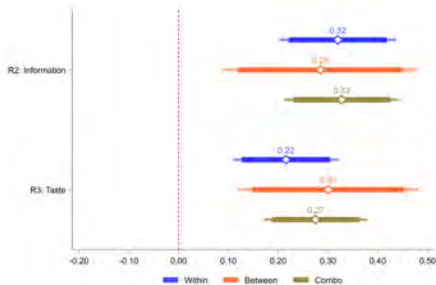
Econometrics: Pooled model

Constant	-0.078	(0.369)
Local	-0.009	(0.042)
Organic	-0.018	(0.048)
R2: Information	-0.069	(0.051)
R3: Taste	-0.117**	(0.050)
Organic \times R2	0.229***	(0.069)
Organic \times R3	0.296***	(0.073)
Local \times R2	0.056	(0.056)
Local \times R3	0.108*	(0.062)
Organic \times Local	0.125***	(0.035)
Organic \times Local \times R2	-0.008	(0.057)
Organic \times Local \times R3	-0.129**	(0.056)

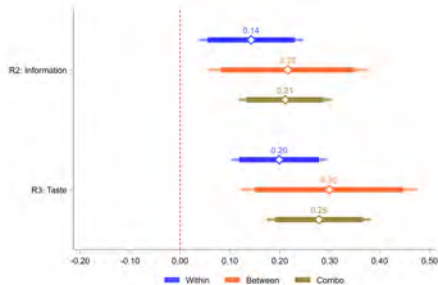
Econometrics: Marginal effects



Organic (given local)



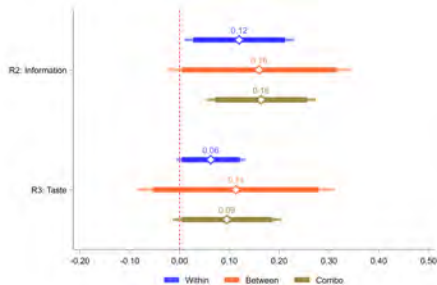
Organic (given non-local)



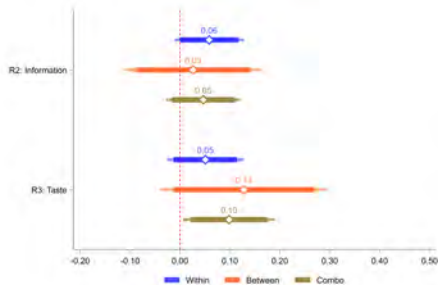
Econometrics: Marginal effects



Local (given organic)



Local (given conventional)



Conclusions



- Between-subjects comparisons produce marginal effects of higher imprecision
- Within-subjects effects are smaller in magnitude with narrower confidence intervals
- Pooled model produces MEs comparable to the within subjects effects
- In some cases both the within and the between-subjects effects point to a null effect, while the ME from the pooled model indicates a statistically significant effect

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