Supplementary materials for Liang & Barr, "Better power by design": Literature Review Results

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This document contains results of our literature review to *the Journal of Experimental Psychology: Human Perception & Performance in 2023*. We searched for papers following criteria mentioned in the **Methods** section of our manuscript. For eligible papers, we recorded (a) whether an experiment in a paper is under randomization design, (b) number of subjects, n_p, (c) number of within-subject independent variable (IV) conditions, n_k, and (d) number of repetitions per condition, n_r, as our justifications of corresponding parameters in simulations. Notice that in our recording, papers containing multiple experiments, if any, would be recorded separately. Experiments marked with **Pseudo** represent those with pseudorandomized stimuli presentation orders. The values of n_k represent the condition numbers of within-subject IV combinations when multiple within-subject IVs were employed (e.g., for an experiment with two two-level within-subject IV, $n_k = 4$).

Table 1: Literature review results

Paper	Randomization	n_p	n_k	n_r	Notes
Ma & Abrams (2023)	Y	24	2	48	Exp 1
Ma & Abrams (2023)	Y	24	2	54	Exp 2
Schirmer et al. (2023)	Pseudo	61	4	50	Exp 2
Chan & Saunders (2023)	Y	16	4	45	Exp 1
Chan & Saunders (2023)	Y	16	4	45	Exp 2
Guitard & Cowan (2023)	Y	120	4	3	Exp 3
Guitard & Cowan (2023)	Y	120	4	6	Exp 3
Gibson et al. (2023)	Y	40	8	5	Exp 1
Gibson et al. (2023)	Y	80	8	5	Exp 2
Vandenberghe & Vannuscorps (2023)	Y	30	6	10	Exp 1
Vandenberghe & Vannuscorps (2023)	Y	60	6	5	Exp 2
Mainka et al. (2023)	Y	20	5	10	
Savino & Kahan (2023)	Y	32	16	5	Exp 1
Savino & Kahan (2023)	Y	32	32	3	Exp 2
Sobrinho & Souza (2023)	Y	28	4	6	Exp 1
Sobrinho & Souza (2023)	Y	112	4	6	Exp 2
Bissett et al. (2023)	Y	66	12	20	
Kinoshita et al. (2023)	Y	40	6	20	Exp 1
Kinoshita et al. (2023)	Y	49	6	20	Exp 3
Kinoshita et al. (2023)	Y	41	6	20	Exp 2
Kinoshita et al. (2023)	Y	42	6	20	Exp 4
Pedziwiatr et al. (2023)	Pseudo	36	2	3	Exp 1
Pedziwiatr et al. (2023)	Pseudo	18	2	3	Exp 2
Pedziwiatr et al. (2023)	Pseudo	20	2	3	Exp 3
Hu et al. (2023)	Y	74	3	2	Exp 2
Overkott & Souza (2023)	Y	36	6	13	Exp 1a
Qiu et al. (2023)	Y	49	4	6	Exp 1
Qiu et al. (2023)	Y	57	8	3	Exp 2a
Qiu et al. (2023)	Y	58	8	3	Exp 2b
Scheibel & Indefrey (2023)	Y	40	4	15	Exp 1
Scheibel & Indefrey (2023)	Y	37	4	15	Exp 2
Nedergaard et al. (2023)	Y	222	8	1	
Chen, Yang, et al. (2023)	Y	20	2	21	Exp 1a
Chen, Yang, et al. (2023)	Y	44	2	21	Exp 1b
Chen, Yang, et al. (2023)	Y	33	4	10	Exp 2
Chen, Yang, et al. (2023)	Y	36	4	10	Exp 3
Durgin & Portley (2023)	Y	40	24	2	
Chen, Cave, et al. (2023)	Y	40	2	8	Exp 1a
Chen, Cave, et al. (2023)	Y	40	4	12	Exp 1b
Chen, Cave, et al. (2023)	Y	40	2	8	Exp 2a
Chen, Cave, et al. (2023)	Y	40	4	12	Exp 2b
Asaoka & Wada (2023)	Y	23	16	16	Exp 1
Asaoka & Wada (2023)	Y	23	16	16	Exp 2
Marzola & Cohen (2023)	Y	61	8	30	Exp 1
Marzola & Cohen (2023)	Y	87	8	30	Exp 2
Klassen et al. (2023)	Y	36	2	20	

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Paper	Randomization	n_p	n_k	n_r	Notes
Severijnen et al. (2023)	Pseudo	80	32	3	
Yu, Cooper, et al. (2023)	Y	192	2	32	
Yu, Cooper, et al. (2023)	Y	50	2	32	
Yu, Allenmark, et al. (2023)	Y	24	3	20	Exp 1a
Yu, Allenmark, et al. (2023)	Y	48	2	60	Exp 2a
Yan et al. (2023)	Y	240	2	65	Exp 1
Yan et al. (2023)	Y	120	2	65	Exp 2
Yan et al. (2023)	Y	120	2	65	Exp 3
Fang et al. (2023)	Y	91	6	2	Exp 1
Fang et al. (2023)	Y	43	6	12	Exp 2a
Fang et al. (2023)	Y	30	6	12	Exp 2b
Fang et al. (2023)	Y	32	12	6	Exp 2c
Barnes et al. (2023)	Y	25	12	2	Exp 1
Barnes et al. (2023)	Y	48	12	2	Exp 2
Barnes et al. (2023)	Y	78	12	2	Exp 3
Barnes et al. (2023)	Y	75	16	3	Exp 4
Veldre et al. (2023)	Y	44	18	20	Exp 1a
Veldre et al. (2023)	Y	42	10	15	Exp 1b
Veldre et al. (2023)	Y	61	20	15	Exp 2a
Veldre et al. (2023)	Y	59	20	15	Exp 2b
Veldre et al. (2023)	Y	59	10	30	Exp 3a
Veldre et al. (2023)	Y	58	10	30	Exp 3b
Negen et al. (2023)	Y	12	3	28	Exp 3
Negen et al. (2023)	Y	12	3	28	Exp 4
Negen et al. (2023)	Y	12	3	23	Exp 5
Negen et al. (2023)	Y	12	3	42	Exp 6
Negen et al. (2023)	Y	12	3	43	Exp 7
Negen et al. (2023)	Y	12	4	16	Exp 8
Negen et al. (2023)	Y	12	3	27	Exp 9
Milligan et al. (2023)	Y	40	6	4	Exp 1
Milligan et al. (2023)	Y	41	6	4	Exp 2
Peker et al. (2023)	Y	20	16	2	
Babu et al. (2023)	Y	18	4	6	
Escobar et al. (2023)	Y	300	2	10	Exp 1
Escobar et al. (2023)	Y	300	2	10	Exp 2
Kershner & Hollingworth (2023)	Y	60	2	10	Exp 1
Kershner & Hollingworth (2023)	Y	20	2	10	Exp 2
Kershner & Hollingworth (2023)	Y	20	2	10	Exp 3
Kershner & Hollingworth (2023)	Y	20	2	8	Exp 4
Ramgir & Lamy (2023)	Y	96	4	12	Exp 1
Ramgir & Lamy (2023)	Y	48	8	12	Exp 2
Goodridge et al. (2023)	Y	12	9	300	
Lavelle et al. (2023)	Y	55	12	5	Exp 1
Lavelle et al. (2023)	Y	54	8	4	Exp 2
Gutzeit et al. (2023)	Y	40	3	12	Exp 1
Gutzeit et al. (2023)	Y	40	3	12	Exp 2
Narhi-Martinez et al. (2023)	Y	28	3	5	Exp 1

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Paper	Randomization	n_p	n_k	n_r	Notes
Narhi-Martinez et al. (2023)	Y	28	3	21	Exp 2
Narhi-Martinez et al. (2023)	Y	56	3	21	Exp 3
Bogon et al. (2023)	Y	25	4	16	Exp 1
Bogon et al. (2023)	Y	45	4	16	Exp 2
Ziaka & Protopapas (2023)	Y	42	8	7	
Cui et al. (2023)	Y	37	12	12	Exp 1a
Cui et al. (2023)	Y	36	12	12	Exp 1b
Cui et al. (2023)	Y	35	12	12	Exp 3b
Cui et al. (2023)	Y	44	4	37	Exp 2
Cui et al. (2023)	Y	41	4	37	Exp 3c
Sears et al. (2023)	Y	60	6	8	Exp 1
Sears et al. (2023)	Y	60	6	8	Exp 2
Chang et al. (2023)	Y	24	3	120	Exp 1
Chang et al. (2023)	Y	24	3	120	Exp 2
Nguyen & van Buren (2023)	Y	50	4	16	Exp 1,4
Nguyen & van Buren (2023)	Y	100	4	16	Exp 2,3,6
Manzone & Welsh (2023)	Y	24	4	15	Exp 1
Manzone & Welsh (2023)	Y	23	4	148	Exp 2
Garnier-Allain et al. (2023)	Y	21	8	7	Exp 1
Garnier-Allain et al. (2023)	Y	21	8	36	Exp 1
Garnier-Allain et al. (2023)	Y	21	28	10	Exp 1
Garnier-Allain et al. (2023)	Y	21	28	13	Exp 2
Garnier-Allain et al. (2023)	Y	21	4	96	Exp 2
Bollini et al. (2023)	Pseudo	42	4	13	Exp 1
Bollini et al. (2023)	Pseudo	42	4	13	Exp 2
Bollini et al. (2023)	Y	42	2	27	Exp 3
Wirth, Ramgir, et al. (2023)	Y	31	4	9	Exp 1
Wirth, Ramgir, et al. (2023)	Y	36	4	9	Exp 2
Kang & Longo (2023)	Y	20	2	18	
Siqi-Liu & Egner (2023)	Pseudo	30	4	15	Exp 1
Siqi-Liu & Egner (2023)	Pseudo	83	8	4	Exp 2
Siqi-Liu & Egner (2023)	Pseudo	170	8	3	Exp 3
Schaaf et al. (2023)	Y	48	4	10	Exp 1
Schaaf et al. (2023)	Y	48	4	10	Exp 2
Geert & Wagemans (2023)	Y	283	2	27	Task 1
Geert & Wagemans (2023)	Y	283	2	82	Exp 2
Geert & Wagemans (2023)	Y	283	2	66	Exp 3
Lerebourg et al. (2023)	Y	43	4	10	Exp 1
Lerebourg et al. (2023)	Y	43	4	16	Exp 2
Lerebourg et al. (2023)	Y	80	4	10	Exp 3
Lerebourg et al. (2023)	Y	80	4	10	Exp 4
Lee & Cho (2023)	Y	32	4	24	Exp 1
Lee & Cho (2023)	Y	32	4	24	Exp 2
Schmalbrock et al. (2023)	Y	32	8	4	Exp 1a
Schmalbrock et al. (2023)	Y	22	8	4	Exp 1b
Schmalbrock et al. (2023)	Y	40	8	4	Exp 2a
Schmalbrock et al. (2023)	Y	40	8	4	Exp 2b

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Paper	Randomization	n_p	n_k	n_r	Notes
Wirth, Tonn, et al. (2023)	Y	24	4	40	Exp 1
Honda et al. (2023)	Y	127	10	5	Task 1
Honda et al. (2023)	Y	127	4	24	Task 3
Woźniak et al. (2023)	Y	184	18	2	
Wentura et al. (2023)	Y	58	4	16	Exp 1
Wentura et al. (2023)	Y	39	4	16	Exp 2
Wentura et al. (2023)	Y	57	4	16	Exp 3
Wentura et al. (2023)	Y	38	4	16	Exp 4
Colvett et al. (2023)	Y	78	8	18	Exp 1
Colvett et al. (2023)	Y	65	8	18	Exp 2
Colvett et al. (2023)	Y	66	8	18	Exp 3
Zhang et al. (2023)	Y	30	4	12	Exp 1
Zhang et al. (2023)	Y	28	4	12	Exp 2
Zhang et al. (2023)	Y	28	4	12	Exp 3
Zhang et al. (2023)	Y	28	4	12	Exp 4
Eggleston et al. (2023)	Y	90	2	50	Exp 1
Eggleston et al. (2023)	Y	90	4	25	Exp 2
Hoversten & Martin (2023)	Y	56	2	62	
Yarrow et al. (2023)	Pseudo	20	18	7	
Cheng et al. (2023)	Y	18	2	90	Exp 1
Cheng et al. (2023)	Y	21	4	5	Exp 2

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