

CORRECTION

Correction: A unifying Bayesian account of contextual effects in value-based choice

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[Fig 5](#) and [Fig 6](#) are incorrect. The authors have provided a corrected version here.



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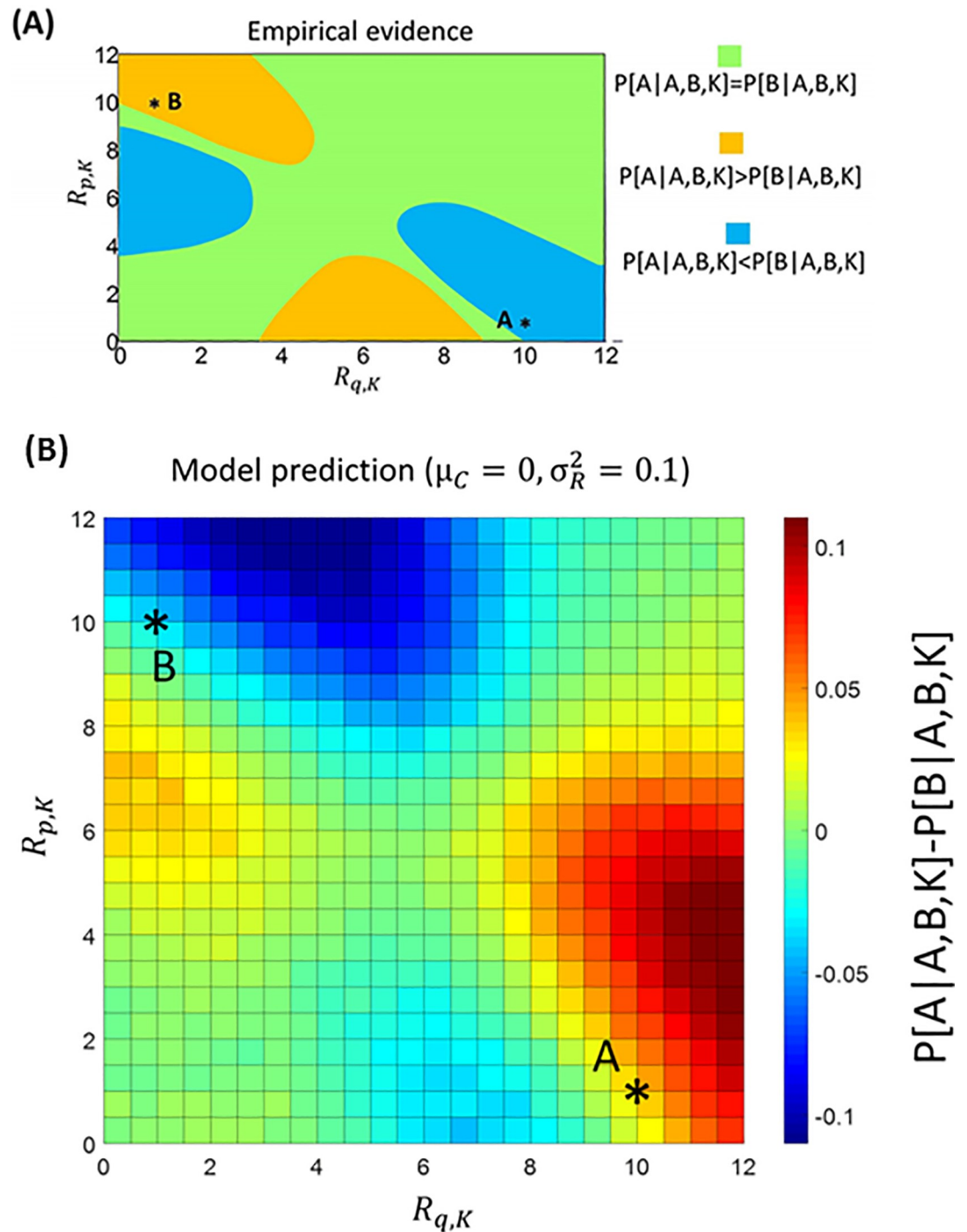


Fig 5. A Empirical evidence (derived from integrating data from available studies as in [19]) concerning the difference in probability between choosing option A and option B when a third option K is available ($P[A|A,B,K] - P[B|A,B,K]$). Here options are characterized by two attributes (price p and quality q). For car A, we assign $R_{p,A} = 1$ to price (low scores indicate high price) and $R_{q,A} = 10$ to quality. For car B, we assign $R_{p,B} = 10$ to price and $R_{q,B} = 1$ to quality. The graph considers the choice probability difference between option A and option B as a function of the reward amounts $R_{q,K}$ (for quality; x axis) and $R_{p,K}$ (for price; y axis) of a third option K. Green areas indicate values for which no difference is expected based on empirical evidence; orange and blue areas indicates values for which a positive and negative difference is expected, respectively. **B:** The same analysis is performed with data simulated using BCV (100000 trials are simulated for each condition; $\mu_C = 0$; $\sigma_R^2 = 0.1$; $\sigma_C^2 = 1$ for simulations).

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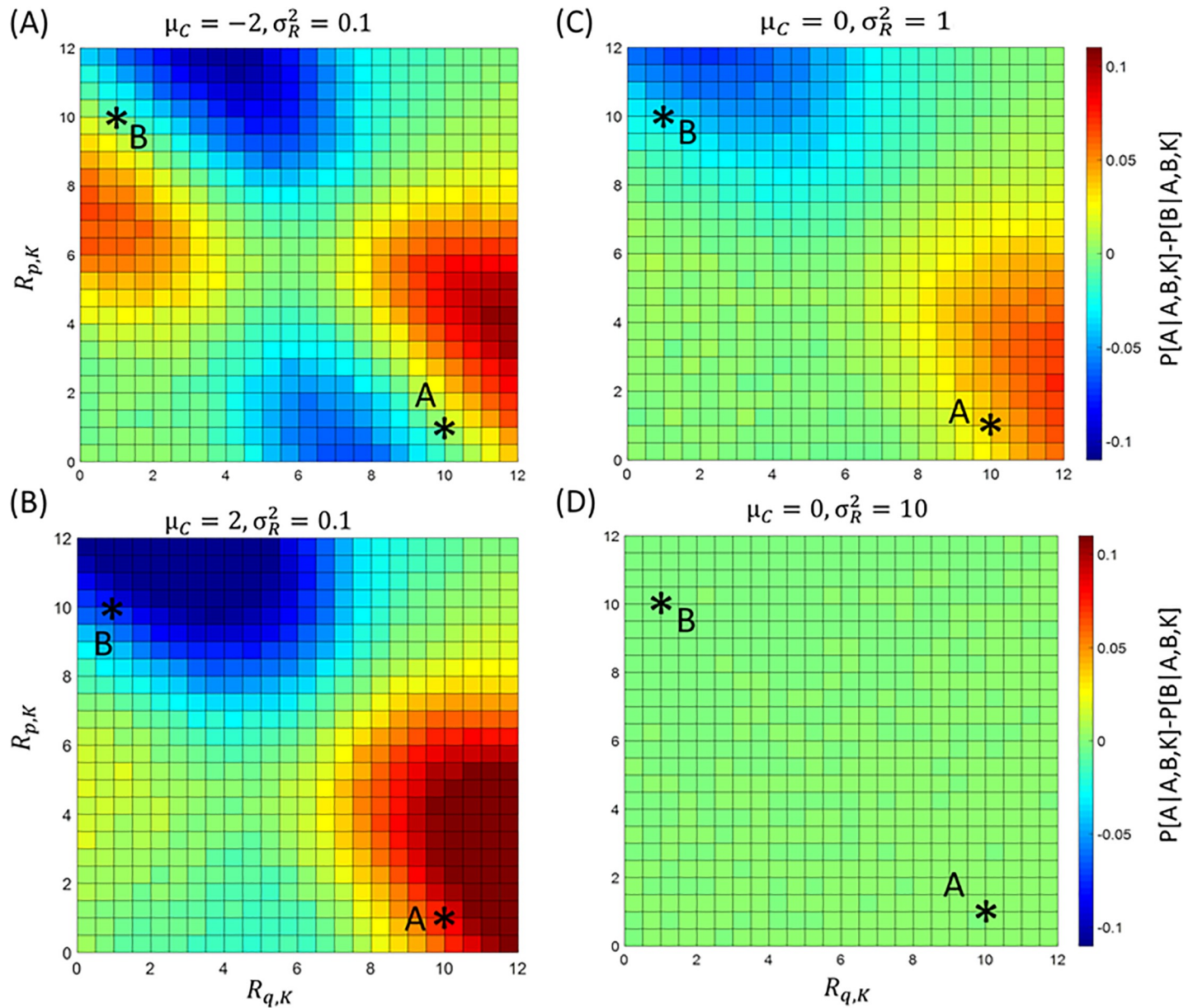


Fig 6. Predictions of BCV about the difference in probability between choosing option A and option B when a third option K is available ($P[A|A,B,K] - P[B|A,B,K]$). Here options are characterized by two attributes (price p and quality q). For car A, we assign $R_{p,A} = 1$ to price (low scores indicate high price) and $R_{q,A} = 10$ to quality. For car B, we assign $R_{p,B} = 10$ to price and $R_{q,B} = 1$ to quality. The graph considers the choice probability difference between option A and option B as a function of the reward amounts $R_{q,K}$ (for quality; x axis) and $R_{p,K}$ (for price; y axis) of a third option K (100000 trials are simulated for each condition; $\sigma_C^2 = 1$ for simulations). Different parameter sets are shown. **A:** Simulation using $\mu_C = -2$ and $\sigma_R^2 = 0.1$. **B:** Simulation using $\mu_C = 2$ and $\sigma_R^2 = 0.1$. **C:** Simulation using $\mu_C = 0$ and $\sigma_R^2 = 1$. **D:** Simulation using $\mu_C = 0$ and $\sigma_R^2 = 10$.

<https://doi.org/10.1371/journal.pcbi.1007366.g002>

Reference

1. Rigoli F, Mathys C, Friston KJ, Dolan RJ (2017) A unifying Bayesian account of contextual effects in value-based choice. *PLoS Comput Biol* 13(10): e1005769. <https://doi.org/10.1371/journal.pcbi.1005769> PMID: 28981514