

# Maria M. Robinson

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## EDUCATION

- Postdoc in Cognitive Psychology 2019-2024  
UNIVERSITY OF CALIFORNIA, SAN DIEGO
- Ph.D. in Attention and Perception 2013-2019  
*Minor in Cognitive and Quantitative Psychology*  
UNIVERSITY OF ILLINOIS, URBANA-CHAMPAIGN
- M. A. in Behavior Science, focus on Decision-making 2008-2009  
*Joint research with Graduate School of Business*  
UNIVERSITY OF CHICAGO
- B. A. Triple Major in Psychology (Honors), English, Philosophy 2004-2008  
UNIVERSITY OF IOWA

## RESEARCH AREAS

- Memory, attention, and decision-making
- Integrative theories of cognition
- Mathematical psychology
- Best practices in measurement and theory assessment in psychology

## AWARDS AND FELLOWSHIPS

- F32 Individual National Research Service Award 2021-2024  
NATIONAL INSTITUTE OF HEALTH
- SBE Postdoctoral Research Fellowship (declined) 2021-2023  
NATIONAL SCIENCE FOUNDATION
- Graduate Dissertation Completion Fellowship 2018-2019  
UNIVERSITY OF ILLINOIS, URBANA-CHAMPAIGN
- List of Teachers Ranked as Excellent by Their Students 2015  
UNIVERSITY OF ILLINOIS, URBANA-CHAMPAIGN
- Iowa Center for Research (ICRU) Research Fellowship 2007-2008  
UNIVERSITY OF IOWA

## JOURNAL PUBLICATIONS

28. Robinson, M. M., Wixted, J. E., Williams, J. R., & Brady, T. F. (accepted). Zooming in on what counts as core and auxiliary in theory assessment: A case study on recognition models of visual working-memory. *Psychonomic Bulletin and Review*.
27. Brady, T. F., Robinson, M. M., & Williams, J. R. (2024). Noisy and hierarchical visual memory across time scales. *Nature Reviews Psychology*.
26. Robinson, M. M., DeStefano, I., Vul, E., & Brady, T. F. (2023). Local but not global graph theoretic measures of semantic networks generalize across tasks. *Behavior Research Methods*.
25. Robinson, M. M., DeStefano, I., Vul, E. & Brady, T. F. (2023). How do people build up visual memory representations from sensory evidence? Revisiting two classic models of choice. *Journal of Mathematical Psychology*.
24. Robinson, M. M., & Brady, T. F. (2023). A quantitative model of ensemble perception as summed activation in feature space. *Nature Human Behavior*.
23. Brady, T. F., Robinson, M. M., Williams, J. R., & Wixted, J. (2023). Measuring memory is harder than you think: How to avoid problematic measurement practices in memory research. *Psychonomic Bulletin and Review*.
22. Robinson, M. M., & Steyvers, M. (2022). Linking computational models of two core tasks of cognitive control. *Psychological Review*.
21. Williams, J.\*, Robinson, M. M.\*, & Brady, T. F. (2022). There is no theory-free measure of “swaps” in visual working memory experiments. *Computational Brain and Behavior*.
20. Williams, J., Robinson, M. M., Schurgin, M., Wixted, J. T., & Brady, T. F. (2022). You can't count how many items people remember in working memory: The importance of signal detection-based measures for understanding change detection performance. *Journal of Experimental Psychology: Human Perception and Performance*.
19. Goldenberg, A., Schone, J., Huang, Z., Sweeny, T. D., Levvari, D., Ong, D. C., Zaki, J., Brady, T. F., Robinson, M. M., & Gross, J. J. (2022). Amplification in the evaluation of emotional expressions over time. *Nature Human Behavior*.
18. Regenwetter, M., & Robinson, M. M. (2022). Reply to commentaries: Why should we worry about scientific conjunction fallacies? *Decision*.
17. Regenwetter, M., Robinson, M. M., & Wang, C. (2022). Four internal inconsistencies in Tversky and Kahneman's (1992) Cumulative Prospect Theory paper: A case study in ambiguous theoretical scope. *Advances in Methods and Practices in Psychological Science*.
16. Regenwetter, M., Robinson, M. M., & Wang, C. (2022). Are you an exception to your favorite decision theory? Behavioral decision research is a huge Linda problem! *Decision*.
15. Lively, Z., Robinson, M. M., & Benjamin, A. S. (2021). Memory strength reveals qualitative changes in interactions between items in visual working memory. *Psychological Science*.
14. Akan, M., Robinson, M. M., Mickes, L., Wixted, J. T., & Benjamin, A. S. (2020). The effect of lineup size on eyewitness identification accuracy. *Journal of Experimental Psychology: Applied*.

13. Robinson, M. M., Benjamin, A. S., & Irwin, D. E. (2020). Is there a K in capacity? Evaluating the discrete-slot model of visual short-term memory. *Cognitive Psychology*.
12. Regenwetter, M., & Robinson, M. M. (2019). Tutorial: Nuisance or substance? Leveraging heterogeneity of preferences. *The Spanish Journal of Psychology*.
11. Robinson, M. M., & Irwin, D. E. (2019). Are there two visual short-term memory stores? A state-trace analysis. *Journal of Mathematical Psychology*.
10. Regenwetter, M. & Robinson, M. M. (2018). The construct-behavior gap revisited: Reply to Hertwig and Pleskac. *Psychological Review*.
9. Robinson, M. M., Clewenger, J., & Irwin, D. E. (2018). The action is in the task-set not in the action. *Cognitive Psychology*.
8. Irwin, D. E. & Robinson, M. M. (2018). How post-saccadic target blanking affects the detection of stimulus displacements across saccades. *Vision Research*.
7. Regenwetter, M., & Robinson, M. M. (2017). The construct-behavior gap in behavioral decision research: A challenge beyond replicability. *Psychological Review*.
6. Robinson, M. M., & Irwin, D. E. (2017). Conscious error perception: The impact of response interference from a secondary task. *Attention, Perception, & Psychophysics*.
5. Irwin, D. E., & Robinson, M. M. (2016). Perceiving a continuous visual world across voluntary eye blinks. *Journal of Experimental Psychology: Human Perception and Performance*.
4. Robinson, M. M., & Irwin, D. E. (2016). Shifts of attention bias awareness of voluntary and reflexive eye movements. *Experimental Brain Research*.
3. Irwin, D. E., & Robinson, M. M. (2015). Detection of stimulus displacements across saccades is capacity limited and biased in favor of the saccade target. *Frontiers in Systems Neuroscience*.
2. Irwin, D. E., & Robinson, M. M. (2014). Perceiving stimulus displacements across saccades. *Visual Cognition*.
1. Robinson, M. M., & Morsella, E. (2014). The subjective effort of everyday mental tasks: Attending, assessing, and choosing. *Motivation and Emotion*.

## CHAPTERS

1. Robinson, M. M., Poehlman, T. A., & Morsella, E. (2012). The subjective aspects of agency, cognitive control, and self-regulation: Findings from the action and consciousness laboratory. *Consciousness: States, Mechanisms, & Disorders*.

## CONFERENCE TALKS AND POSTERS

18. Robinson, M. M. (2023, November). Formally linking computational models of attentional control tasks can help validate measures and constrain theory. *Talk presented at the Attentional control as a psychometric construct: Challenges and responses, Symposium, Psychonomic Society Conference*.

17. Robinson, M. M., Brady, T. F. (2023, November). Metacognition as direct readout. *Talk presented at the Psychonomic Society Conference.*
16. Brady, T. F., Robinson, M. M. (2023, May). Visual similarity structure a priori predicts memory errors for novel high-dimensional face stimuli. *Poster presented at the Proceedings of the Annual Meeting of the Cognitive Science Society.*
15. Robinson, M. M., DeStefano, I., Vul, E., Brady, T. F. (2023, May). Building up visual memories from sensory evidence. *Poster presented at the Proceedings of the Annual Meeting of the Cognitive Science Society.*
14. Robinson, M. M., Wixted, J., & Brady, T. F., (2022, November). What conditions optimize memory and why? Reconciling the conflicting effects of similarity and correlated noise. *Talk presented at the Psychonomics Society Conference.*
13. Robinson, M. M., DeStefano, I. C., Brady, T. F., & Vul, E., (2022, July). Robustness of graph theoretic representations of semantic networks. *Poster presented at the Proceedings of the Annual Meeting of the Cognitive Science Society.*
12. Robinson, M. M., Williams, J. R., & Brady, T. F. (2022, May). Evaluating models of visual working-memory in change detection: Discrete-slots or non-diagnostic data? *Poster presented at the Vision Sciences Society Meeting.*
11. Robinson, M. M., Brady, T. F., Vul, E., & DeStefano, I. C. (2021, July). Revisiting the connection between the Luce's choice rule and signal detection theory. *Talk presented at the Virtual Conference of the Society of Mathematical Psychology.*
10. Robinson, M. M., & Brady, T. F. (2021, May). A quantitative model of ensemble perception as summed activation in feature space. *Talk presented at the Virtual Vision Sciences Society Meeting.*
9. Robinson, M. M., Wixted, J. T., & Brady, T. F. (2020, June). Decision strategy matters: Different testing procedures can change decision strategies and lead to spurious effects on estimates of visual working memory sensitivity. *Poster presented at the Virtual Vision Sciences Society Meeting.*
8. Robinson, M. M., Irwin, D. E., & Benjamin, A. S. (2019, November). Is there a K in capacity? Evaluating the discrete-slot model of visual short-term memory. *Poster presented at the 60th Annual Meeting of the Psychonomic Society, Montreal, Canada.*
7. Regenwetter, M., & Robinson, M. M. (2017, July). A context dependent random-preference approach to the description-experience gap. *Talk presented at the Annual Meeting of the Society for Mathematical Psychology, the European Mathematical Psychology Group of the International Conference on Cognitive Modelling, Warwick.*
6. Irwin, D. E., & Robinson, M. M. (2016, November). How post-saccadic target blanking affects the detection of stimulus displacements across saccades. *Poster presented at the 57th Annual Meeting of the Psychonomic Society, Boston, MA.*
5. Robinson, M. M., & Irwin, D. E. (2016, November). Reexamining the effect of action on attentional deployment in visual search. *Poster presented at the 24th Annual Workshop on Object Perception, Attention, & Memory, Boston, MA.*

4. Robinson, M. M., & Regenwetter, M. (2015, November). Description-experience gap or construct-data gap? *Talk presented at the Annual Meeting of the Society for Judgment and Decision Making, Chicago, IL.*
3. Robinson, M. M., & Irwin, E. D. (2015, November). Conscious error perception: The impact of response interference from a secondary task. *Poster presented at the 56th Annual Meeting of the Psychonomic Society, Chicago, IL.*
2. Krisst, L. C., Robinson, M. M., & Morsella, E. (2013, May). Revisiting Libet's studies: Effect of volition on time perception and response interference. *Poster presented at the Annual Meeting of the Society for Cognitive Neuroscience, San Francisco, CA.*
1. Robinson, M. M., & Morsella, E. (2012, March). The subjective cost of everyday thinking (comparing, attending, and choosing): Implications for social cognition research. *Poster presented at the Annual Meeting of the Society for Personality and Social Psychology, San Diego, CA.*

## TEACHING POSITIONS

- Laboratory Instructor, Introductory Psychology 2017  
UNIVERSITY OF ILLINOIS, URBANA-CHAMPAIGN
- Laboratory Instructor, Introductory Psychology 2015  
UNIVERSITY OF ILLINOIS, URBANA-CHAMPAIGN
- Adjunct Instructor of Statistics in Health and Behavioral Science 2013  
DOMINICAN UNIVERSITY OF CALIFORNIA, SAN RAFAEL

## RESEARCH POSITIONS

- Visiting Research Associate, Action and Consciousness Laboratory 2010-2013  
SAN FRANCISCO STATE UNIVERSITY
- Undergraduate Research Scholar in Philosophy 2007-2008  
UNIVERSITY OF IOWA
- Undergraduate Research Assistant in Psychology 2006-2008  
UNIVERSITY OF IOWA