

# M Karl Healey

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Department of Psychology

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## Academic Appointments

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2022–	Associate Professor	Michigan State University
2016–2022	Assistant Professor	Michigan State University

## Education

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2011–2016	Postdoctoral Fellow	University of Pennsylvania Advisor: Michael J. Kahana
2011	Ph.D. Psychology	University of Toronto Advisor: Lynn Hasher
2006	M.A. Psychology	University of Toronto Advisor: Akira Miyake
2004	B.Sc. (Hons) Psychology	Memorial University Advisor: Rita Anderson

## Honors, Fellowships, and Awards

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2016	Fellow of the Psychonomic Society
2015	Psychonomic Society Select-Speaker Award
2012	APA New Investigator Award: Division 3
2009	Ontario Graduate Scholarship
2009	Best Graduate Student Poster for Division 3 at APA convention
2009	Men's Service Group Graduate Student Fellowship
2007	Ontario Graduate Scholarship
2005	Mary H. Beatty Scholarship
2004–06	Natural Sciences and Engineering Research Council of Canada (NSERC) Scholarship
2004	Ontario Graduate Scholarship (Declined in favor of NSERC)

## Grant Support

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- Healey, M. K., P.I. (07/01/2019 – 06/30/2022 (no cost extension to 06/30/2024)). NSF 1848972 *CompCog: The Role of Control Processes in the Dynamics of Episodic Memory Search*, \$641,344 total costs.

## Publications ( $\sigma$ = trainee)

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### Preprints

1. Mundorf <sup>$\sigma$</sup> , A. M. D., Uitvlugt <sup>$\sigma$</sup> , M. G., and **Healey, M. K.** (preprint). Incidentally encoded temporal associations produce priming in implicit memory. *PsyArXiv*.

2. Lazarus<sup>σ</sup>, L. T., Mundorf<sup>σ</sup>, A. M. D., Uitvlugt<sup>σ</sup>, M. G., and **Healey, M. K.** (preprint). Integrating retrieved context theory and item-order theory: a hybrid model of the distinctiveness effect. *PsyArXiv*.
3. **Healey, M. K.**, Gibson, B. S., Uitvlugt<sup>σ</sup>, M. G., and Gondoli, D. M. (preprint). Recall initiation instructions influence how space and time interact in memory. *PsyArXiv*.
4. **Healey, M. K.** and Wahlheim, C. N. (preprint). A post-encoding pre-production reinstatement (PEPPR) model of dual-list free recall. *PsyArXiv*.
5. Kahana, M. J., Lohnas, L. J., **Healey, M. K.**, Aka, A., Broitman<sup>σ</sup>, A. W., Crutchley<sup>σ</sup>, P., Crutchley, E., Alm, K. H., Katerman, B. S., Miller, N. E., Kuhn, J. R., Li, Y., Long, N. M., Miller, J., Paron, M. D., Pazdera, J. K., Pedisich, I., and Weidemann, C. T. (preprint). The Penn Electrophysiology of Encoding and Retrieval Study. *PsyArXiv*.

### **Refereed Journal Articles**

1. Lohnas, L. J., **Healey, M. K.**, and Davachi, L. (in press). Neural temporal context reinstatement of event structure during memory recall. *Journal of Experimental Psychology: General*.
2. May, C., Hasher, L., and **Healey, M. K.** (in press). For whom (and when) the time bell tolls: chronotypes and the synchrony effect. *Perspectives on Psychological Science*.
3. Mundorf<sup>σ</sup>, A. M. D., Uitvlugt<sup>σ</sup>, M. G., and **Healey, M. K.** (2022). Does depth of processing affect temporal contiguity?. *Psychonomic, Bulletin, & Review*, 29, 2229–2239.
4. Robison, M. K., Trost, J. M., Schor, D., Gibson, B. S., and **Healey, M. K.** (2022). Pupillary correlates of individual differences in long-term memory. *Psychonomic, Bulletin, & Review*, 29, 1355–1366.
5. İmamoğlu, A., Foubert, C., Wahlheim, C. N., **Healey, M. K.**, Langella, S., Belger, A., and Giovanello, K. S. (2022). Episodic memory impairment in children and adolescents at risk for schizophrenia: A role for context processing. *Schizophrenia Research: Cognition*, 28, 100241.
6. Gibson, B. S., **Healey, M. K.**, Schor, D., and Gondoli, D. M. (2021). Space and time in the similarity structure of memory. *Psychonomic Bulletin & Review*, 28, 2003–2011.
7. Mundorf<sup>σ</sup>, A. M. D., Lazarus<sup>σ</sup>, L. T., Uitvlugt<sup>σ</sup>, M. G., and **Healey, M. K.** (2021). A retrieved context account of temporal contiguity in incidentally encoded memories. *Journal of Experimental Psychology: Learning Memory, and Cognition*, 47, 1264–1287.
8. Ngo, J., Amer, T., **Healey, M. K.**, Hasher, L., and Alain, C. (2021). Electrophysiological signature of suppression of competitors during interference resolution. *Brain Research*, 1767, 147564.
9. Broitman<sup>σ</sup>, A. W., Kahana, M. J., and **Healey, M. K.** (2020). Modeling retest effects in a longitudinal measurement burst study of memory. *Computational Brain & Behavior*, 3, 200–207.
10. **Healey, M. K.** and Kahana, M. J. (2020). Age-related differences in the temporal dynamics of spectral power during memory encoding. *PLOS ONE*, 15, e0227274.
11. Gibson, B. S., **Healey, M. K.**, and Gondoli, D. M. (2019). ADHD reflects impaired externally-directed and enhanced internally-directed attention in the immediate free recall task. *Journal of Abnormal Psychology*, 128, 173–183.

12. **Healey, M. K.**, Long, N. M., and Kahana, M. J. (2019). Contiguity in episodic memory. *Psychonomic Bulletin & Review*, *26*, 699–720.
13. **Healey, M. K.** and Uitvlugt<sup>σ</sup>, M. G. (2019). The role of control processes in temporal and semantic contiguity. *Memory & Cognition*, *47*, 719–737.
14. Uitvlugt<sup>σ</sup>, M. G. and **Healey, M. K.** (2019). Temporal proximity links unrelated news events in memory. *Psychological Science*, *30*, 92–104.
15. **Healey, M. K.** (2018). Temporal contiguity in incidentally encoded memories. *Journal of Memory and Language*, *102*, 28–40.
16. Anderson, J. A. E., **Healey, M. K.**, Peterson, M. A., and Hasher, L. (2016). Age-related deficits in inhibition in figure-ground assignment in stationary displays. *Journal of Vision*, *16*, 1–12.
17. **Healey, M. K.** and Kahana, M. J. (2016). A four-component model of age-related memory change. *Psychological Review*, *123*, 23–69.
18. Burke, J. F., Sharan, A. D., Evans, J., Ramayya, A., **Healey, M. K.**, Sperling, M. R., and Kahana, M. J. (2014). Theta and high-frequency activity mark spontaneous episodic retrieval during free recall. *Journal of Neuroscience*, *34*, 11355–11365.
19. **Healey, M. K.**, Crutchley<sup>σ</sup>, P., and Kahana, M. J. (2014). Individual differences in memory search and their relation to intelligence. *Journal of Experimental Psychology: General*, *143*, 1553–1569.
20. **Healey, M. K.** and Kahana, M. J. (2014). Is memory search governed by universal principles or idiosyncratic strategies?. *Journal of Experimental Psychology: General*, *143*, 575–596.
21. **Healey, M. K.**, Ngo, K. W. J., and Hasher, L. (2014). Below baseline suppression of competitors during interference resolution by younger but not older adults. *Psychological Science*, *25*, 145–151.
22. **Healey, M. K.**, Hasher, L., and Campbell, K. L. (2013). The role of suppression in resolving interference: evidence for an age-related deficit. *Psychology and Aging*, *28*, 721–728.
23. Campbell, K. L., Zimmerman, S., **Healey, M. K.**, Lee, M. M. S., and Hasher, L. (2012). Age differences in visual statistical learning. *Psychology and Aging*, *27*, 650–656.
24. **Healey, M. K.**, Hasher, L., and Danilova<sup>σ</sup>, E. (2011). The stability of working memory: Do previous tasks influence complex span?. *Journal of Experimental Psychology: General*, *140*, 650–656 (**Earned APA New Investigator Award**).
25. **Healey, M. K.**, Campbell, K. L., Hasher, L., and Osher<sup>σ</sup>, L. (2010). Direct evidence for the role of inhibition in resolving interference in memory. *Psychological Science*, *21*, 1464–1470.
26. **Healey, M. K.** and Hasher, L. (2009). Limitations to the deficit attenuation hypothesis: aging and decision making. *Journal of Consumer Psychology*, *19*, 17–22.
27. **Healey, M. K.** and Miyake, A. (2009). The role of attention during retrieval in working-memory span: A dual-task study. *Quarterly Journal of Experimental Psychology*, *62*, 733–745.
28. Kim, S., **Healey, M. K.**, Goldstein, D., Hasher, L., and Wiprzycka, U. J. (2008). Age differences in choice satisfaction: A positivity effect in decision making. *Psychology and Aging*, *23*, 33–38.

### **Invited Chapters in Edited Volumes**

1. Lohnas, L. J. and **Healey, M. K.** (2021). The role of context in episodic memory: Behavior and neurophysiology. In Kara D. Federmeier & Lili Sahakyan (Eds.) *Psychology of Learning and Motivation, Vol. 75: The Context of Cognition: Emerging Perspectives* (pp. 157–199). Academic Press.
2. **Healey, M. K.** (2016). Interference. In S. K., Whitbourne (Ed.), *The Encyclopedia of Adulthood and Aging*. New York: Wiley-Blackwell.
3. **Healey, M. K.**, Campbell, K. L., and Hasher, L. (2008). Cognitive aging and increased distractibility: Costs and potential benefits. In W. S. Sossin, J. C. Lacaille, V. F. Castellucci, & S. Belleville (Eds.) *Progress in Brain Research, Vol. 169: Essence of Memory* (pp. 353–363). Amsterdam, the Netherlands: Elsevier.

### **Symposia Organized**

1. **Healey, M. K.** and Campbell, K. L. (2020). Symposium III: Age Differences in Episodic Memory Control Processes. Symposium organized for the 61<sup>st</sup> annual meeting of The Psychonomic Society, Virtual Conference Due to COVID19.

### **Conference Presentations (Last 5 Years)**

1. Mundorf<sup>σ</sup>, A. M. D., Uitvlugt<sup>σ</sup>, M. G., and **Healey, M. K.** (2023). Temporal gradients in implicit memory: evidence for automatic formation and retrieval of novel associations. Talk presented at the 95<sup>th</sup> annual meeting of the Midwestern Psychology Association, Chicago, IL.
2. Mundorf<sup>σ</sup>, A. M. D., Uitvlugt<sup>σ</sup>, M. G., and **Healey, M. K.** (2022a). Is Temporal Order Information Retrieved Automatically? Poster presented at the 63rd annual meeting of The Psychonomic Society, Boston, MA.
3. Mundorf<sup>σ</sup>, A. M. D., Uitvlugt<sup>σ</sup>, M. G., and **Healey, M. K.** (2022b). Levels of processing and temporal contiguity in free recall. Talk presented at the 94<sup>th</sup> annual meeting of the Midwestern Psychology Association, Chicago, IL.
4. Mundorf<sup>σ</sup>, A. M. D. and **Healey, M. K.** (2022). Does the temporal contiguity effect require intentional retrieval? Talk presented at Context and Episodic Memory Symposium, Philadelphia, PA.
5. Lazarus<sup>σ</sup>, L. T. and **Healey, M. K.** (2022). Orthographic distinctiveness in mixed lists. Talk presented at Context and Episodic Memory Symposium, Philadelphia, PA.
6. Mundorf<sup>σ</sup>, A. M. D., Uitvlugt<sup>σ</sup>, M. G., and **Healey, M. K.** (2021a). Does depth of processing affect temporal contiguity? Poster presented at the 62nd annual meeting of The Psychonomic Society, Virtual Conference Due to COVID19.
7. Mundorf<sup>σ</sup>, A. M. D., Uitvlugt<sup>σ</sup>, M. G., and **Healey, M. K.** (2021b). Does depth of processing affect temporal contiguity? Poster presented at Context and Episodic Memory Symposium, Philadelphia, PA.
8. **Healey, M. K.** and Wahlheim, C. N. (2021). A post-encoding pre-production reinstatement (PEPPR) model of dual-list free recall. Talk presented at Context and Episodic Memory Symposium, Philadelphia, PA.

9. **Healey, M. K.** and Wahlheim, C. N. (2020). A post-encoding pre-production reinstatement (PEPPR) model of dual-list free recall. Talk presented at the 61<sup>st</sup> annual meeting of The Psychonomic Society, Virtual Conference Due to COVID19.
10. Lazarus<sup>σ</sup>, L. T., Mundorf<sup>σ</sup>, A. M. D., and **Healey, M. K.** (2020). Modeling of reduced temporal contiguity for distinct items. Poster presented at Context and Episodic Memory Symposium, Virtual Conference Due to COVID19.
11. Mundorf<sup>σ</sup>, A. M. D., Lazarus<sup>σ</sup>, L. T., Uitvlugt<sup>σ</sup>, M. G., and **Healey, M. K.** (2020). A test of retrieved context models: Dynamics of recall after incidental encoding. Poster presented at the 61<sup>st</sup> annual meeting of The Psychonomic Society, Virtual Conference Due to COVID19.
12. Mundorf<sup>σ</sup>, A. M. D., Lazarus<sup>σ</sup>, L. T., and **Healey, M. K.** (2020). A test of retrieved context models: Dynamics of recall after incidental encoding. Poster presented at Context and Episodic Memory Symposium, Virtual Conference Due to COVID19.
13. Robison, M., Gibson, B. S., **Healey, M. K.**, Trost, J., and Schor, D. (2020). Individual differences in arousal and long-term memory abilities. Talk presented at the 61<sup>st</sup> annual meeting of The Psychonomic Society, Virtual Conference Due to COVID19.
14. Uitvlugt<sup>σ</sup>, M. G. and **Healey, M. K.** (2020). The temporal contiguity effect is negatively correlated with episodic memory performance and fluid intelligence. Poster presented at Context and Episodic Memory Symposium, Virtual Conference Due to COVID19.
15. **Healey, M. K.** (2019). The role of control processes in the dynamics of episodic memory search. Talk presented at Context and Episodic Memory Symposium, Philadelphia, PA.
16. Lazarus<sup>σ</sup>, L. T., Mundorf<sup>σ</sup>, A. M. D., and **Healey, M. K.** (2019a). Computational modeling of variations in the Temporal Contiguity Effect. Poster presented at Context and Episodic Memory Symposium, Philadelphia, PA.
17. Lazarus<sup>σ</sup>, L. T., Mundorf<sup>σ</sup>, A. M. D., and **Healey, M. K.** (2019b). Computational modeling of variations in the Temporal Contiguity Effect. Poster presented at Psychonomic Society Annual Meeting, Montreal, QB, Canada.
18. Mundorf<sup>σ</sup>, A. M. D., Lazarus<sup>σ</sup>, L. T., and **Healey, M. K.** (2019a). Temporal contiguity in incidentally encoded memories. Poster presented at the 91<sup>st</sup> annual meeting of the Midwestern Psychology Association, Chicago, IL.
19. Mundorf<sup>σ</sup>, A. M. D., Lazarus<sup>σ</sup>, L. T., and **Healey, M. K.** (2019b). Temporal contiguity in incidentally encoded memories. Poster presented at Context and Episodic Memory Symposium, Philadelphia, PA.
20. Mundorf<sup>σ</sup>, A. M. D., Lazarus<sup>σ</sup>, L. T., and **Healey, M. K.** (2019c). Modeling temporal contiguity in incidentally encoded memories. Poster presented at Psychonomic Society Annual Meeting, Montreal, QB, Canada.

## Invited Talks

1. Carleton University (2023).
2. University of Pennsylvania (2022).

3. University of Michigan (2020).
4. Purdue University (2018).
5. University of Toronto (2013).

## Teaching & Mentoring

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### Undergraduate Courses

- Cognitive Psychology
- Data Analysis in Psychological Research
- Statistics II

### Doctoral Supervision

2018– Abigail Mundorf (PhD Psychology)

2018– Linh Lazarus (Masters Psychology)

## Professional Activities

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- NSF Perception, Action, & Cognition Grant Panel
- NSF Perception, Action, & Cognition Ad Hoc Grant Reviewer
- Israel Science Foundation Ad Hoc Grant Reviewer
- Psychology advisor for the Honors College (MSU) 2022–