

M Karl Healey

University of Pennsylvania
Department of Psychology
Computational Memory lab

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Academic Appointments

2011–Present	Postdoctoral Fellow	University of Pennsylvania Supervisor: Michael J. Kahana
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Education

2011	Ph.D. Psychology	University of Toronto Supervisor: Lynn Hasher
2006	M.A. Psychology	University of Toronto Supervisor: Akira Miyake
2004	B.Sc. (Hons) Psychology	Memorial University Supervisor: Rita Anderson

Publications

1. **Healey, M. K.** (in press). Interference. In S. K., Whitbourne (Ed.), *The Encyclopedia of Adulthood and Aging*. New York: Wiley-Blackwell.
2. **Healey, M. K.** and Kahana, M. J. (in press). A four-component model of age-related memory change. *Psychological Review*. [PDF](#).
3. 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. [PDF](#).
4. **Healey, M. K.**, Crutchley, P., and Kahana, M. J. (2014). Individual differences in memory search and their relation to intelligence. *Journal of Experimental Psychology: General*, 143, 1553–1569. [PDF](#).
5. **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. [PDF](#).
6. **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. [PDF](#).
7. **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. [PDF](#).
8. 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. [PDF](#).
9. **Healey, M. K.**, Hasher, L., and Danilova, 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**). [PDF](#).
10. **Healey, M. K.**, Campbell, K. L., Hasher, L., and Osher, L. (2010). Direct evidence for the role of inhibition in resolving interference in memory. *Psychological Science*, 21, 1464–1470. [PDF](#).

11. **Healey, M. K.** and Hasher, L. (2009). Limitations to the deficit attenuation hypothesis: aging and decision making. *Journal of Consumer Psychology*, 19, 17–22. [PDF](#).
12. **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. [PDF](#).
13. **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. [PDF](#).
14. 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. [PDF](#).

Working Manuscripts

1. Anderson, J. A. E., **Healey, M. K.**, Peterson, M. A., and Hasher, L. (under revision). Age related deficits in inhibition in figure ground assignment in stationary displays. *Revise and Resubmit at Journal of Vision*.
2. **Healey, M. K.** and Kahana, M. J. (in prep). Age-related memory impairment is mediated by rapid decline of spectral power during encoding.
3. **Healey, M. K.** and Kahana, M. J. (in prep). Older adults fail to reinstate neural context during memory search.
4. **Healey, M. K.** and Kahana, M. J. (in prep). Scalp electroencephalography reveals neural context reinstatement during episodic memory retrieval.

Funding

Competitive fellowships with application/review process similar to NIH NRSA:

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| 2009 | Ontario Graduate Scholarship (\$15,000) |
| 2007 | Ontario Graduate Scholarship (\$15,000) |
| 2004–06 | Natural Sciences and Engineering Research Council of Canada Scholarship (\$17,300/yr) |
| 2004 | Offered an Ontario Graduate Scholarship (\$15,000/yr; declined in favor of NSERC) |

Honors and Awards

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| 2015 | Psychonomic Society Select-Speaker Award (\$1500 for travel) |
| 2012 | APA New Investigator Award: Division 3 |
| 2009 | Best graduate student poster for Division 3 at APA convention |
| 2009 | Men's Service Group Graduate Student Fellowship (\$6900) |
| 2005 | Mary H. Beatty Scholarship (\$5000) |

Training

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| 2010 | European Society for Cognitive Psychology Summer School in Computational and Mathematical Modeling of Cognition |
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Ad Hoc Reviewing

Psychological Review; JEP: General; JEP: Learning, Memory, and Cognition; Psychonomic Bulletin & Review; Cortex; Memory; Psychology and Aging; Memory & Cognition; Consciousness and Cognition; Cognitive Processing; Experimental Aging Research; Journal of Experimental Social Psychology; Aging, Neuropsychology and Cognition; Sage Open

Professional Memberships

- Association for Psychological Science
- Psychonomic Society
- Society for Neuroscience

Courses Taught

- Statistics II (PSY202 – University of Toronto)

Teaching Assistantships

University of Toronto: Statistics I (4 times); Statistics II; Introduction to Cognition; Introduction to Psychology; Memory and Learning Lab; Biological Rhythms

University of Pennsylvania: Big Data, Memory, and the Human Brain

Mentorship

2007	Jamie Benoit	Senior Thesis Project
2007	Elena Danilova	Senior Thesis Project
2007	Lauren Long	Senior Thesis Project
2008	Lynn Ossher	Senior Thesis Project
2008	Margot Sullivan	Senior Thesis Project
2009	Jane Kouptsova	Senior Thesis Project
2010	Polong Lin	Senior Thesis Project
2015	Stamati Liapis	Senior Thesis Project

First Author Conference Presentations (last 3 years)

Talks

1. **Healey, M. K.** and Kahana, M. J. (2015). A four-component model of age-related memory change. Featured Talk at the Context and Episodic Memory Symposium, Philadelphia, PA.
2. **Healey, M. K.** and Kahana, M. J. (2015). A four-component model of age-related memory change. Psychonomic Society **Select-Speaker Award Talk** at the 56th annual meeting of The Psychonomic Society, Chicago, IL.
3. **Healey, M. K.** and Kahana, M. J. (2014). A new approach to understanding age-related memory impairments. Data Blitz Talk at the Context and Episodic Memory Symposium, Philadelphia, PA.
4. **Healey, M. K.** and Kahana, M. J. (2014). A new approach to understanding age-related memory impairments. Paper presented at the Cognitive Aging Conference, Atlanta, GA.
5. **Healey, M. K.** and Kahana, M. J. (2014). Commentary on: Long-term memory representations limit the capacity of free recall of unrelated words. Commentary at the Context and Episodic Memory Symposium, Philadelphia, PA.
6. **Healey, M. K.** and Kahana, M. J. (2013). Commentary on: Why do participants initiate their immediate free recall of short lists of words with the first list item?. Commentary at the Context and Episodic Memory Symposium, Philadelphia, PA.
7. **Healey, M. K.** and Kahana, M. J. (2013). Memory search is governed by universal principles—not idiosyncratic strategies. Data Blitz Talk at the Context and Episodic Memory Symposium, Philadelphia, PA.

Posters

1. **Healey, M. K.** and Kahana, M. J. (2015). Neural context reinstatement during episodic memory retrieval with scalp electroencephalography. Poster presented at the annual meeting of The Society for Neuroscience, Chicago, IL.
2. **Healey, M. K.**, Crutchley, P., and Kahana, M. J. (2013). Individual differences in memory search and their relation to intelligence. Poster presented at the 54th annual meeting of The Psychonomic Society, Toronto, ON, Canada.
3. **Healey, M. K.**, Ngo, K. W. J., and Hasher, L. (2013). Below baseline suppression of competitors during interference resolution by younger but not older adults. Poster presented at the 54th annual meeting of The Psychonomic Society, Toronto, ON, Canada.

Invited Talks

1. **Healey, M. K.** (2014). University at Buffalo.
2. **Healey, M. K.** (2013). University of Toronto.

References

Lynn Hasher

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