

KAREN L. CAMPBELL

Curriculum Vitae

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ACADEMIC POSITIONS

- 2021- Associate Professor and Canada Research Chair in Cognitive Neuroscience of Aging, Department of Psychology, Brock University
- 2017-2021 Assistant Professor and Canada Research Chair in Cognitive Neuroscience of Aging, Department of Psychology, Brock University
- 2015-2016 Postdoctoral Fellow, Department of Psychology, Harvard University
Supervisor: Dr. Daniel Schacter
- 2013-2015 Postdoctoral Associate, Department of Psychology, University of Cambridge
Supervisors: Prof. Lorraine Tyler and Prof. Rik Henson

FORMAL EDUCATION

- 2012 Ph.D. in Psychology, University of Toronto
Dissertation: *Binding too much rather than too little: Age differences in attentional control and the implications for associative memory*
Supervisors: Dr. Lynn Hasher and Dr. Cheryl Grady
- 2007 M.A. in Psychology, University of Toronto
Thesis: *Age-related differences in memory for frequency of occurrence of emotional words*
Supervisors: Dr. Lynn Hasher and Dr. Cheryl Grady
- 2004 Hons. B.Sc. in Psychology with High Distinction, University of Toronto

RESEARCH GRANTS

Refereed external grants

- 2022-2027 Campbell, K. L. (PI), Olsen, R. K., Geerligs, L., & White, S., *Associative memory across the adult lifespan: Neural mechanisms and a novel technique for remediation*. Canadian Institutes of Health Research. (\$340,425)
- 2021-2024 Evans, A. C., ...**Campbell, K. L.** (Co-I) et al. *EEGNet: An EEG platform for national and international EEG-based neuroscience*. Brain Canada Foundation Platform Support Grant. (\$1,941,000).

- 2019-2024 **Campbell, K. L.** (PI), *Aging and associative memory: Neural mechanisms and implications for everyday life*. Ontario Ministry of Research, Innovation and Science, Early Researcher Award. (\$150,000)
- 2019 **Campbell, K. L.** (PI), *Eye movements and electrophysiological activity as markers of age-related cognitive change*. Canada Foundation for Innovation, John R. Evans Leaders Fund. (\$190,690)
- 2017-2022 **Campbell, K. L.** (PI), *Aging and the loss of control over memory*. Natural Sciences and Engineering Research Council (NSERC) Discovery Grant. (\$150,000)
- 2017-2022 **Campbell, K. L.** (PI), *Aging and memory: The ubiquitous effects of reduced attentional control*. Natural Sciences and Engineering Research Council (NSERC) Tier 2 Canada Research Chair. (\$500,000)
- 2017-2018 **Campbell, K. L.** (PI), *Age differences in voluntary vs involuntary retrieval*, Toronto Neuroimaging Facility Stimulus Grant, Department of Psychology, University of Toronto. (20 hours of free scanning, equivalent to \$9000)

Refereed internal grants

- 2021-2022 **Campbell, K. L.** (PI), O'Connor, A., Hall, W., *Exploring younger and older adults' implicit and explicit honesty attitudes*, Brock SSHRC Institutional Explore Grant. (\$7115)
- 2020-2022 **Campbell, K. L.** (PI), *The effect of age and episodic simulation on willingness to help during the COVID-19 pandemic*, Council for Research in the Social Sciences (CRISS) Seed Grant, Faculty of Social Sciences, Brock University. (\$3000)
- 2017-2019 **Campbell, K. L.** (PI), *Neural mechanisms of stereotype threat in aging: Why expecting to fail makes you fail*, Council for Research in the Social Sciences (CRISS) Seed Grant, Faculty of Social Sciences, Brock University. (\$3000)

ACADEMIC DISTINCTIONS AND AWARDS

- 2021 Outstanding Co-op Supervisor (nominated by student), Brock University
- 2020 Early Career Award, Psychonomic Society (\$2500), leading organization in the experimental study of cognition (4300 members worldwide)
- 2016 Canadian Institutes of Health Research Travel Award (\$1000)
- 2016 Postdoctoral Award for Professional Development, Harvard University (\$750)

- 2015-2017 Canadian Institutes of Health Research Postdoc Fellowship (\$100,000, declined)
- 2014 Charles Slater Travel Award, University of Cambridge (£500)
- 2011-2012 Ontario Graduate Scholarship (\$15,000)
- 2011-2012 Doctoral Completion Award, University of Toronto (\$18,000, declined)
- 2011 Canadian Institutes of Health Research Age + Prize (\$1000), for my paper “Hyper-binding: A unique age effect” in *Psychological Science*.
- 2011 J. Davidson Ketchum Graduate Scholarship in Psychology, University of Toronto (\$5000)
- 2008-2010 Natural Sciences and Engineering Research Council Post-Graduate Scholarship (\$42,000)
- 2009 APA Convention Poster Award, 1st place in Experimental Psychology
- 2004 Treble Gold Medal (for highest graduating GPA in Life Sciences), Victoria College, University of Toronto

PUBLICATIONS

Papers in peer-refereed journals

* Denotes a graduate student collaborator

** Denotes an undergraduate student collaborator

39. Guardia, T.*, Geerligs, L., Tsvetanov, K. A., Ye, R., & **Campbell, K. L.** (2022). The role of the arousal system in age-related differences in cortical functional network architecture. *Human Brain Mapping, 43*, 985–997.
38. Henderson, S. E.*, Hall, S. A., Callegari, J. M.**, Desjardins, J. A., Segalowitz, S. J., & **Campbell, K. L.** (in press). Increased alpha suppression with age during involuntary memory retrieval. *Psychophysiology, 59*, e13947. DOI: 10.1111/psyp.13947.
37. Ryan, A. D.*, & **Campbell, K. L.** (2021). The ironic effect of older adults’ increased task motivation: Implications for neurocognitive aging. *Psychonomic Bulletin & Review, 28*, 1743-1754. <https://doi.org/10.3758/s13423-021-01963-4>
36. Davis, E. E.*, Chemnitz, E.**, Collins, T. K., Geerligs, L., & **Campbell, K. L.** (2021). Looking the same, but remembering differently: Preserved eye-movement synchrony with age during movie-watching. *Psychology and Aging, 36*, 604-615. <https://doi.org/10.1037/pag0000615>.
35. Davis, E. E.*, Foy, E. A.**, Giovanello, K. S., & **Campbell, K. L.** (2021). Implicit associative

memory remains intact with age and extends to target-distractor pairs. *Aging, Neuropsychology, & Cognition*, 28, 455-471. DOI: 10.1080/13825585.2020.1782827.

34. **Campbell, K. L.**, Lustig, C., & Hasher, L. (2020). Aging and inhibition: Introduction to the special issue. *Psychology and Aging*, 35, 605-613.
33. Henderson, S. E.*, Lockhart, H. A.*, Davis, E. E.*, Emrich, S. M., & **Campbell, K. L.** (2020). Reduced attentional control in older adults leads to deficits in flexible prioritization of visual working memory. *Brain Sciences*, 10, 542.
32. O'Connor, A. M.*, **Campbell, K. L.**, & Mahy, C. E. V. (2020). Younger and older adults' prospective memory: The role of delay task difficulty. *Aging, Neuropsychology, and Cognition*, 28, 184-200. DOI: 10.1080/13825585.2020.1724866.
31. Strömmer, J. M.*, Davis, S. W., Henson, R. N., Tyler, L. K., Cam-CAN, & **Campbell, K. L.** (2020). Physical activity predicts population-level age-related differences in frontal white matter. *Journals of Gerontology: Biological Sciences*, 75, 236-243.
30. Geerligs, L., Cam-CAN, & **Campbell, K. L.** (2018). Age-related differences in information processing during movie watching. *Neurobiology of Aging*, 72, 106-120.
29. **Campbell, K. L.**, & Tyler, L. K. (2018). Language-related domain-specific and domain-general systems in the human brain. *Current Opinion in Behavioral Sciences*, 21, 132-137.
28. **Campbell, K. L.**, Madore, K. P., Benoit, R. G., Thakral, P. P., & Schacter, D. L. (2018). Increased hippocampus to ventromedial prefrontal connectivity during the construction of episodic future events. *Hippocampus*, 28, 76-80.
27. **Campbell, K. L.**, & Hasher, L. (2018). Hyper-binding only apparent under fully implicit test conditions. *Psychology and Aging*, 33, 176-181.
26. Price, D., Tyler, L. K., Neto Henriques, R., **Campbell, K. L.**, Williams, N. Treder, M., CamCAN, & Henson, R. N. (2017). Age-related delay in visual and auditory evoked responses is mediated by white and gray matter differences. *Nature Communications*, 8: 15671.
25. **Campbell, K. L.**, Benoit, R. G., & Schacter, D. L. (2017). Priming, not inhibition, of related concepts during future imagining. *Memory*, 25, 1235-1245.
24. Samu, D., **Campbell, K. L.**, Tsvetanov, K. A., Shafto, M. A., Cam-CAN, & Tyler, L. K. (2017). Preserved cognitive functions with age are determined by domain-dependent shifts in network responsivity. *Nature Communications*, 8: 14743.
23. **Campbell, K. L.**, & Schacter, D. L. (2017). Aging and the resting state: Cognition is not obsolete. *Language, Cognition, and Neuroscience*, 32, 692-694.
22. **Campbell, K. L.**, & Schacter, D. L. (2017). Aging and the resting state: Is cognition obsolete? *Language, Cognition, and Neuroscience*, 32, 661-668.

➔ This was a special target article to which several leaders in the field replied.

21. Amer, T., **Campbell, K. L.**, & Hasher, L. (2016). Cognitive control as a double-edged sword. *Trends in Cognitive Sciences*, *20*, 905-915.
20. Anderson, J. A. E., Sarraf, S., Amer, T., Bellana, B., Man, V., **Campbell, K. L.**, Hasher, L., & Grady, C. L. (2016). Task-linked diurnal brain network reorganization in older adults: A graph theoretical approach. *Journal of Cognitive Neuroscience*, *29*, 560-572.
19. Henson, R. N., **Campbell, K. L.**, Davis, S. W., Taylor, J. R., Emery, T., Erzincliglu, S., Cam-CAN, & Kievit, R. A. (2016). Multiple determinants of lifespan memory differences. *Scientific Reports*, *6*, 1-14. doi:10.1038/srep32527.
18. Amer, T., Anderson, J. A. E., **Campbell, K. L.**, Hasher, L., & Grady, C. L. (2016). Age differences in the neural correlates of distraction regulation: A network interaction approach. *NeuroImage*, *139*, 231-239.
17. **Campbell, K. L.**, Samu, D., Davis, S. W., Geerligs, L., Mustafa, A., Cam-CAN, & Tyler, L. K. (2016). Robust resilience of the frontotemporal syntax system to aging. *Journal of Neuroscience*, *36*, 5214-5227.
16. Grady, C. L., Saman, S., Saverino, C., & **Campbell, K. L.** (2016). Age differences in the functional interactions among the default, frontoparietal control, and dorsal attention networks. *Neurobiology of Aging*, *41*, 159-172.
15. **Campbell, K. L.**, Shafto, M. A., Wright, P., Tsvetanov, K. A., Geerligs, L., Cusack, R., Cam-CAN, & Tyler, L. K. (2015). Idiosyncratic responding during movie-watching predicted by age differences in attentional control. *Neurobiology of Aging*, *36*, 3045-3055.
14. Anderson, J. A. E., **Campbell, K. L.**, Amer, T., Grady, C. L., & Hasher, L. (2014). Timing is everything: Age differences in the cognitive control network are modulated by time of day. *Psychology and Aging*, *29*, 648-57.
13. **Campbell, K. L.**, Trelle, A. **, & Hasher, L. (2014). Hyper-binding across time: age differences in the effect of temporal proximity on paired-associate learning. *Journal of Experimental Psychology: Learning, Memory, and Cognition*, *40*, 293-299.
12. **Campbell, K. L.**, Grigg, O., Saverino, C., Churchill, N., & Grady, C. L. (2013). Age differences in the intrinsic functional connectivity of default network subsystems. *Frontiers in Aging Neuroscience*, *5*:73. doi: 10.3389/fnagi.2013.00073.
11. Healey, M. K., Hasher, L., & **Campbell, K. L.** (2013). The role of suppression in resolving interference: Evidence for an age-related deficit. *Psychology and Aging*, *28*, 721-728.
10. Biss, R. K., Ngo, K. W. J., Hasher, L., **Campbell, K. L.**, & Rowe, G. (2013). Distraction can reduce age-related forgetting. *Psychological Science*, *24*, 448-455.

9. Farb, N. A. S., Grady, C. L., Strother, S., Tang-Wai, D., Masellis, M., Black, S., Freedman, M., Pollock, B.G., **Campbell, K. L.**, Hasher, L., & Chow, T. (2013). Abnormal network connectivity in frontotemporal dementia: Evidence of prefrontal isolation. *Cortex*, *49*, 1856-73.
8. **Campbell, K. L.**, Grady, C. L., Ng, C., & Hasher, L. (2012). Age differences in the frontoparietal cognitive control network: Implications for distractibility. *Neuropsychologia*, *50*, 2212-2223.
7. Biss, R. K., **Campbell, K. L.**, & Hasher, L. (2012). Interference from previous distraction disrupts older adults' memory. *Journals of Gerontology Series B: Psychological Sciences and Social Sciences*, *68*, 558-561.
6. **Campbell, K. L.**, Zimmerman, S., Healey, M. K., Lee, M. S.**, & Hasher, L. (2012). Age differences in visual statistical learning. *Psychology and Aging*, *27*, 650-656.
5. Healey, M. K., **Campbell, K. L.**, Hasher, L., & Osher, L. (2010). Direct evidence for the role of inhibition in resolving interference. *Psychological Science*, *21*, 1464-1470.
4. **Campbell, K. L.**, Hasher, L., & Thomas, R. C. (2010). Hyper-binding: A unique age effect. *Psychological Science*, *21*, 399-405.
➔ This paper won the Canadian Institutes of Health Research Age + Prize.
3. **Campbell, K. L.**, Al-Aidroos, N., Fatt**, R., Pratt, J., & Hasher, L. (2009). The effects of multisensory targets on saccadic trajectory deviations: Eliminating age differences. *Experimental Brain Research*, *201*, 385-392.
2. **Campbell, K. L.**, & Ryan, J. D. (2009). The effects of practice and external support on older adults' control of reflexive eye movements. *Aging, Neuropsychology, and Cognition*, *16*, 745-763.
1. **Campbell, K. L.**, Al-Aidroos, N., Pratt, J., & Hasher, L. (2009). Repelling the young and attracting the old: Examining age-related differences in saccade trajectory deviations. *Psychology and Aging*, *24*, 163-168.

Book chapters

2. Hasher, L., & **Campbell, K. L.** (2020). Inhibitory theory: Assumptions, findings, and relevance to interventions. In Thomas, A.K. & Gutches A. (Eds.). *The Cambridge Handbook of Cognitive Aging: A Lifecourse Perspective*. Cambridge University Press, Cambridge, United Kingdom.
1. Healey, M. K., **Campbell, K. L.**, & 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. Elsevier, Amsterdam, pp. 353-363.

Submitted manuscripts and preprints

6. Guardia, T., Cote, K., Healey, M. K., Gammage, K. L., & **Campbell, K. L.** (submitted). Physical activity and sleep

quality predict memory function in middle-aged and older adults. *Sleep Health*.

5. Davis, E. E., & **Campbell, K. L.** (submitted). Event boundaries structure the contents of long-term memory in younger and older adults. *Memory*.
4. Tibon, R., Geerligs, L., & **Campbell, K. L.** (submitted). Bridging the big (data) gap: Levels of control in small- and large-scale cognitive neuroscience research. *Trends in Neurosciences*.
3. O'Connor, A. M.* , Hall, W., Mahy, C. E. V., & **Campbell, K. L.** (submitted). Younger and older women, but not men, are implicitly biased to trust children. *Law and Human Behaviour*.
2. Ryan, A. D., Gaesser, B., Schacter, D. L., & **Campbell, K. L.** (revision requested). Episodic simulation of helping behaviour in younger and older adults during the COVID-19 pandemic. *Journal of Applied Research in Memory & Cognition*.
1. Geerligs, L., van Gerven, M., **Campbell, K. L.**, & Güçlü, U. (submitted). Timescales and functional organization of neural event segmentation in the human brain. *eLife*.
<https://www.biorxiv.org/content/10.1101/2021.02.05.429165v1>

PRESENTATIONS

Conference talks

* Denotes speaker

17. Ryan, A. D., Gaesser, B., Schacter, D. L., & **Campbell, K. L.*** (2021, October). Episodic simulation of helping behaviour in younger and older adults during the COVID-19 pandemic. Paper presented at the Memory Disorders Research Society Annual Meeting, Virtual Conference.
16. Henderson, S. E.* , Lockhart, H. A., Davis, E. E., Emrich, S. M., & **Campbell, K. L.** (2021, June). Reduced attentional control in older adults leads to deficits in flexible prioritization of visual working memory. Paper presented at the Virtual Working Memory Symposium 2021, Virtual Conference.
15. **Campbell, K.L.*** (2020, November). Memory without intention: Alpha suppression as a neural marker of task demands in voluntary vs involuntary retrieval in older and younger adults. Paper presented at the 61st Annual Meeting of the Psychonomic Society, Virtual Conference.
14. **Campbell, K. L.*** (2020, November). Hyper-binding over time: Implications for event memory with age. Invited talk at the 61st Annual Meeting of the Psychonomic Society, Virtual Conference.
13. **Campbell, K. L.*** (2019, February). Something in the way we test: Neurocognitive aging and the pervasive influence of extraneous task demands. Invited Keynote talk presented at the 48th Annual Lake Ontario Visionary Establishment Conference, Niagara Falls, Canada.
12. **Campbell, K. L.***, Cam-CAN, & Geerligs, L. (2018, March). I did it my way: Explaining age-related

declines in inter-subject synchronization during naturalistic viewing. Data blitz talk presented at the 25th annual Cognitive Neuroscience Society Meeting, Boston, MA, USA.

11. **Campbell, K. L.*** (2017, November). Priming, not inhibition, of competing representations during future imagining. Paper presented at the Symposium in Honour of Lynn Hasher, Toronto, Canada.
10. **Campbell, K. L.***, Samu, D., & Tyler, L. K. (2017, August). Context-dependent shifts in network functionality with age. Invited talk at the 13th International Conference for Cognitive Neuroscience, Amsterdam, Netherlands.
9. **Campbell, K. L.***, Cam-CAN, & Tyler, L. K. (2017, April). Finding the ageing brain's natural capacity. Paper presented at British Neuroscience Association 2017: Festival of Neuroscience, Birmingham, United Kingdom.
8. **Campbell, K. L.***, & Hasher, L. (2016, August). Age-related hyper-binding: Both a help and a hindrance? Invited talk at the 6th International Conference on Memory, Budapest, Hungary.
7. **Campbell, K. L.***, Hasher, L., Davis, S. W., Geerligs, L., Samu, D., Cam-CAN, & Tyler, L. K. (2016, May). The pervasive effects of reduced attentional control with age. Invited talk at Association for Psychological Science 28th Annual Convention, Chicago, IL, USA.
6. **Campbell, K. L.***, Shafto, M., Wright, P., Tsvetanov, K., Cusack, R., Cam-CAN, Tyler, L. K. (2015, April). Beyond the resting state: Age differences in neural networks identified during naturalistic viewing. Paper presented at the 3rd International Conference on Aging & Cognition, Dortmund, Germany.
5. **Campbell, K. L.***, Cam-CAN, & Tyler, L. K. (2015, March). Preserved syntactic processing across the lifespan. Data blitz talk presented at the 22nd annual Cognitive Neuroscience Society Meeting, San Francisco, CA, USA.
4. Price, D.*, Henson, R., Clarke, A., Treder, M. S., **Campbell, K. L.**, Cam-CAN, & Tyler, L. K. (2015, January). Neural delay and cognitive performance over the adult lifespan. Paper presented at the 9th Annual MEG UK Meeting, Birmingham, UK.
3. **Campbell, K. L.*** (2014, May). The hyper-binding hypothesis: Age differences in attentional control and the implications for associative memory. Paper presented at the Cambridge Memory Meeting, Cambridge, UK.
2. Hasher, L.*, Biss, R. K., Campbell, K. L., Ngo, K. W. J., & Rowe, G. (2013, April). Using distraction to facilitate remembering in older adults. Paper presented at the International Conference on Aging & Cognition, Dortmund, Germany.
1. Thomas, R. C., **Campbell, K. L.**, & Hasher, L.* (2008, November). Implicit benefits of susceptibility to distraction. Paper presented at the 49th annual meeting of The Psychonomic Society, Chicago, IL, USA.

Conference posters

32. Davis, E. E., Frechette, O. K., & **Campbell, K. L.** (2021, November). What happened next? Event boundary perception and long-term memory recall in older and younger adults. Poster presented at the 62nd Annual Meeting of the Psychonomic Society, Virtual Conference.
31. Duprey, M. S., Torres, R. E., **Campbell, K. L.**, & Emrich, S. M. (2021, November). The Effects of Recollection and Familiarity on Working Memory Performance. Poster presented at Object Perception, visual Attention, and visual Memory Conference (OPAM), Virtual Conference.
30. Torres, R. E., Emrich, S. M., & **Campbell, K. L.** (2021, November). Age Differences in Working Memory Filtering of Distracting Information. Poster presented at Object Perception, visual Attention, and visual Memory Conference (OPAM), Virtual Conference.
29. Ryan, A. D., Holliday, A., Gaesser, B., Schacter, D. L., & **Campbell, K. L.** (2021, May). Episodic simulation of helping behaviour in younger and older adults during the COVID-19 pandemic. Poster presented at the Association for Psychological Science Virtual Convention.
28. Guardia, T., Geerligs, L., Tsvetanov, K. A., & **Campbell, K. L.** (2020, June). The arousal system mediates age-related differences in functional connectivity within and between cortical networks. Poster presented at the Annual Scientific Meeting of the Organization for Human Brain Mapping, Montreal, Canada.
27. Henderson, S. E., Lockhart, H. A., Davis, E. E., Emrich, S. M., & **Campbell, K. L.** (2020, February). Reduced attentional control in older adults leads to deficits in flexible prioritization of visual working memory. Poster presented at the 49th Annual Lake Ontario Visionary Establishment Conference, Niagara Falls, Canada.
26. Ryan, A. D., & **Campbell, K. L.** (2019, November). Stereotype-threat and memory in older adults: A negative association between cortisol and explicit memory. Poster presented at the 60th Annual Meeting of the Psychonomic Society, Montreal, Quebec, Canada.
25. Davis, E. E., Chemnitz, E., Collins, T., & **Campbell, K.L.** (2019, November). No age differences in intersubject eye movement synchrony during naturalistic viewing: Implications for memory. Poster presented at the 60th Annual Meeting of the Psychonomic Society, Montreal, Quebec, Canada.
24. Henderson, S. E., Callegari, J., Desjardins, J. A., Segalowitz, S. J., **Campbell, K. L.** (2019, March). Age differences in the neural underpinnings of voluntary vs involuntary memory retrieval. Poster presented at the 26th Annual Cognitive Neuroscience Society Meeting, San Francisco, CA, USA.
23. Davis, E., Foy, E., & **Campbell, K. L.** (2019, February). Reduced attentional control affects older adults' performance on implicit associations task. Poster presented at the 48th Annual Lake Ontario Visionary Establishment Conference, Niagara Falls, Canada.
22. Geerligs, L., Cam-CAN, & **Campbell, K. L.**, (2018, March). I did it my way: Explaining age-related declines in inter-subject synchronization during naturalistic viewing. Poster presented at the 25th annual Cognitive Neuroscience Society Meeting, Boston, MA, USA.

21. **Campbell, K. L.**, Madore, K. P., Benoit, R. G., Thakral, P. P., & Schacter, D. L. (2017, August). Increased hippocampus to ventromedial prefrontal connectivity during episodic future simulation. Poster session at the 13th International Conference for Cognitive Neuroscience, Amsterdam, Netherlands.
20. **Campbell, K. L.**, Benoit, R. G., Schacter, D. L. (2016, August). Priming of related concepts during future imagining. Poster session to be presented at the 6th International Conference on Memory, Budapest, Hungary.
19. Strömmer, J. M., **Campbell, K. L.**, Tyler, L. K., Cam-CAN, & Davis, S. W. (2016, July). Physical activity mitigates age-related frontal white matter loss. Poster session presented at the Federation of European Neuroscience Societies Forum, Copenhagen, Denmark.
18. **Campbell, K. L.**, Cam-CAN, & Tyler, L. K. (2014, August). Preserved language comprehension with age and its relationship to cognitive control. Poster session presented at the 6th Annual Meeting of the Society for the Neurobiology of Language, Amsterdam, Netherlands.
17. **Campbell, K. L.**, Shafto, M. A., Wright, P., Tsvetanov, K. A., Cusack, R., Cam-CAN, & Tyler, L. K. (2014, June). Beyond the resting state: Age differences in neural networks identified during naturalistic viewing. Poster session presented at the Annual Scientific Meeting of the Organization for Human Brain Mapping, Hamburg, Germany.
16. Anderson, J. A. E., Churchill, N. W., **Campbell, K. L.**, Hasher, L., & Grady, C. L. (2014, March). A PLS spectral analysis reveals time of day differences in endogenous BOLD signal in older adult task and resting state fMRI. Poster session presented at the 24th Annual Rotman Research Institute Conference, Toronto, ON, Canada.
15. Anderson, J. A. E., **Campbell, K. L.**, Hasher, L., & Grady, C. L. (2013, June). Time of day affects functional connectivity in the elderly. Poster session presented at the 19th Annual Meeting of the Organization for Human Brain Mapping, Seattle, WA, USA.
14. Biss, R. K., **Campbell, K. L.**, & Hasher, L. (2013, May). Repeating studied items as distraction boosts older adults' recognition memory. Poster session presented at the annual meeting of the Association for Psychological Science, Washington, DC, USA.
13. **Campbell, K. L.**, & Hasher, L. (2012, April). The role of inhibition in constraining memory binding over time: Age differences in cross-pair associations. Poster session presented at the biannual Cognitive Aging Conference, Atlanta, GA, USA.
12. **Campbell, K. L.**, Grigg, O., & Grady, C. L. (2012, April). Fractionating the default mode in younger and older adults. Poster session presented at the 19th annual Cognitive Neuroscience Society Meeting, Chicago, IL, USA.
11. Ng, C., Oder, A., Grigg, O., **Campbell, K. L.**, Strother, S., & Grady, C. L. (2011, June). Does the model matter in defining the default mode network? Poster session presented at the 17th Annual Meeting of the Organization for Human Brain Mapping, Quebec City, QC, Canada.

10. **Campbell, K. L.**, Zimerman, S., Lee, M. S., & Hasher, L. (2010, November). Age-related advantage in visual statistical learning. Poster session presented at the 51st Annual Meeting of the Psychonomic Society, St. Louis, MO, USA.
9. **Campbell, K. L.**, Grady, C. L., & Hasher, L. (2010, April). Age differences in the recruitment of widespread neural networks: Implications for distractibility. Poster session presented at the 17th annual Cognitive Neuroscience Society Meeting, Montreal, QC, Canada.
8. Healey, M. K., **Campbell, K. L.**, Hasher, L., & Osher, L. (2010, April). The role of inhibition in interference resolution: Evidence of an age related deficit. Poster session presented at the Context and Episodic Memory Symposium, Philadelphia, PA, USA.
7. Healey, M.K., **Campbell, K. L.**, Hasher, L., & Osher, L. (2009, August). Direct evidence for the role of inhibition in resolving interference. Poster session presented at the 117th annual American Psychological Association Convention, Toronto, ON, Canada.
6. Fatt, R., **Campbell, K. L.**, Al-Aidroos, N., & Hasher, L. (2009, August). Multisensory interactions in saccade curvature: Effects of bimodal targets. Poster session presented at the 117th annual American Psychological Association Convention, Toronto, ON, Canada.
5. **Campbell, K. L.**, & Hasher, L. (2009, March). Cross-trial associations: Implications for age differences in paired associate learning. Poster session presented at the annual Rotman Research Institute Conference, Toronto, ON, Canada.
4. Pratt, J., Al-Aidroos, N., **Campbell, K. L.**, & Hasher, L. (2008, May). Older adults just can't look away: Age-related changes in saccadic trajectory curvature. Poster session presented at the annual meeting of the Vision Sciences Society, Naples, FL, USA.
3. **Campbell, K. L.**, Thomas, R. C., & Hasher, L. (2008, April). Aging and association formation: Binding too much rather than too little? Poster session presented at the biannual Cognitive Aging Conference, Atlanta, GA, USA.
2. **Campbell, K. L.**, & Ryan, J. D. (2008, April). Exercise a little restraint: Improving older adults' control of reflexive eye movements. Poster session presented at the biannual Cognitive Aging Conference, Atlanta, GA, USA.
1. **Campbell, K. L.**, & Hasher, L. (2007, May). Positivity bias in older adults' frequency estimates of emotional words. Poster session presented at the annual meeting of the Association for Psychological Science, Washington, DC, USA.

Conference symposia organized

4. Healey, M. K., & **Campbell, K. L.** (2020, November). Age differences in episodic memory control processes. The 61st Annual Meeting of the Psychonomic Society, Virtual Conference.

3. **Campbell, K. L.** (2017, November). *Symposium (Festschrift) in Honour of Lynn Hasher*. University of Toronto, Toronto, Canada.
2. **Campbell, K. L., & Tyler, L. K.** (2017, April). *Old brains, new insights*. British Neuroscience Association 2017: Festival of Neuroscience, Birmingham, United Kingdom.
1. **Campbell, K. L.** (2015, April). *Insights on ageing and brain function from the Cam-CAN*. Third International Conference on Aging & Cognition, Dortmund, Germany.

Invited research talks

14. **Campbell, K. L.** (2021). Aging and memory for events: Further evidence of preserved binding with age. Cognitive and Neurobiological Approaches to Plasticity Brown Bag Series, Kansas State University, Manhattan, KS, USA.
13. **Campbell, K. L.** (2019). Aging and brain function: The case for naturalistic stimuli. Cognitive Neuroscience Colloquium Series, Michigan State University, East Lansing, MI, USA.
12. **Campbell, K. L.** (2018). Finding the aging brain's natural capacity. Women in Neuroscience, Brain and Mind Institute, Western University, London, Canada.
11. **Campbell, K. L.** (2017). Finding the aging brain's natural capacity. Department of Psychology, University of Guelph, Guelph, Canada.
10. **Campbell, K. L.** (2017). Finding the aging brain's natural capacity. Department of Psychology, Ryerson University, Toronto, Canada.
9. **Campbell, K. L.** (2017). Finding the aging brain's natural capacity. Department of Psychology, University of Toronto, Toronto, Canada.
8. **Campbell, K. L.** (2014). The hyper-binding hypothesis: Age differences in attentional control and the implications for associative memory. Department of Psychology, University of Warwick, Coventry, UK.
7. **Campbell, K. L.** (2013). The hyper-binding hypothesis: Age differences in attentional control and the implications for associative memory. Oxford Centre for Human Brain Activity, University of Oxford, Oxford, UK.
6. **Campbell, K. L.** (2013). The hyper-binding hypothesis: Age differences in attentional control and the implications for associative memory. Cognition & Brain Sciences Unit, University of Cambridge, Cambridge, UK.
5. **Campbell, K. L.** (2012). Age differences in attentional control: Implications for associative memory. Center for Cognitive Neuroscience, Duke University, Durham, NC, USA.
4. **Campbell, K. L.** (2012). Age Differences in memory for distraction. Department of Psychology,

University of Toronto, Toronto, Canada.

3. **Campbell, K. L.** (2011). Age Differences in memory for distraction. *Cognition & Brain Sciences* Unit, University of Cambridge, Cambridge, UK.
2. **Campbell, K. L.** (2011). Age differences in attentional control: Implications for associative memory. Department of Psychology, University of Toronto, Toronto, Canada.
1. **Campbell, K. L.** (2011). Age differences in memory for distraction. Department of Psychology, Ryerson University, Toronto, Canada.

TEACHING

Courses taught

2021-	Human Memory (PSYC 3P20), Brock University
2020	Developmental Neuroscience (PSYC 7V09), Brock University
2019	Directed Research Techniques (PSYC 7P12 Neuroimaging Research Techniques – fMRI Research Methods and Statistical Parametric Mapping), Brock University
2018-	Psychology of Aging (PSYC 3P19), Brock University
2017	Behavioural and Cognitive Neuroscience Focus Area Research Seminar (PSYC 5Y51/7Y51), Brock University
2012	Human Memory (PSY 372), University of Toronto
2011	Cognitive Neuroscience (PSY 493), University of Toronto

Guest lectures

2014	Co-organizer, Hands-on Neuroscience Workshop, University of Cambridge
2011	<i>Statistical analyses</i> , Human Memory Laboratory, University of Toronto
2009-2011	<i>Short-term & working memory</i> , Introduction to Cognition, University of Toronto

Trainee supervision

Postdoctoral Fellows

2021-present	Selma Lugtmeijer, Brock University
2021-present	Barbara Pitts, Kansas State University, <i>mentor on National Institutes of Health funded project</i>

PhD Students

2018-present	Tiago Guardia de Souza e Silva, Brock University
2019-present	A. Dawn Ryan, Brock University
2020-present	Emily Davis, Brock University
2020-present	Sarah Henderson, Brock University
2014-2015	Juho Strömmer, Cambridge University, <i>co-supervised with Lorraine Tyler</i>

Masters Students

2017-2019 A. Dawn Ryan Brock University
 2018-2020 Emily Davis, Brock University
 2018-2020 Sarah Henderson, Brock University
 2020-present Rosa Torres Hernandez, Brock University, *co-supervised with Stephen Emrich*

Graduate Committee Member

2022- Alyssa Thibeault, MA student, Psychology, Brock University
 2021- Smit Patel, MA student, Psychology, Brock University
 2021- Shawna Hopper, MA student, Applied Health Sciences, Brock University
 2019- Samantha Moeller, MA student, Psychology, Brock University
 2019- Alison O'Connor, PhD student, Psychology, Brock University
 2019- Brent Pitchford, PhD student, Psychology, Brock University
 2019- Andrew Chung, PhD student, Psychology, Brock University
 2017- Holly Lockhart, PhD student, Psychology, Brock University
 2017-2020 Christine Salahub, PhD student, Psychology, Brock University
 2017-2020 Reuben Howlett, MA student, Psychology, Brock University

Comprehensive Exam Committee Member

2021 Emily Davis, PhD student, Psychology, Brock University
 2021 Sarah Henderson, PhD student, Psychology, Brock University
 2020 Tiago Guardia de Souza e Silva, PhD student, Psychology, Brock University
 2020 A. Dawn Ryan, PhD student, Psychology, Brock University
 2019 Holly Lockhart, PhD student, Psychology, Brock University
 2019 Brent Pitchford, PhD student, Psychology, Brock University
 2018 Christine Salahub, PhD student, Psychology, Brock University
 2018 Claire Matthews, PhD student, Psychology, Brock University
 2018 Caitlyn Gallant, PhD student, Psychology, Brock University

External Examiner

2021 Niki Sinha, Department of Child & Youth Studies, Brock University
 2021 Roni Setton, McGill University
 2018 Dorothee Schoemaker, McGill University

Honours Thesis Students

2021-2022 Edyta Houshang Tehrani, Psychology, Brock University
 2021-2022 Ronnie Smitko, Psychology, Brock University
 2021-2022 Megan Fazekas, Psychology, Brock University
 2020-2021 Arjun Naipaul, Neuroscience, Brock University
 2020-2021 Kiran Randhawa, Psychology, Brock University
 2020-2021 Peter Henen, Psychology, Brock University
 2017-2018 Sarah Henderson, Psychology, Brock University
 2017-2018 Emily Chemnitz, Neuroscience, Brock University
 2017-2018 Ethan Foy, Neuroscience, Brock University
 2011-2012 Ali Trelle, University of Toronto, *co-supervised with Lynn Hasher*
 2008-2009 Lynn Ossher, University of Toronto, *co-supervised with Lynn Hasher*

Honours Thesis Committee Member (Neuroscience)

- 2018 Janahan Selvanayagam, Neuroscience, Brock University
2018 Aaron Zwiep, Neuroscience, Brock University

NSERC Undergraduate Student Research Award

- 2021 Kiran Randhawa, Brock University
2018 Emily Chemnitz, Brock University
2017 Sarah Henderson, Brock University

Match of Minds Summer Student Research Assistant

- 2020 Oakley Frechette, Brock University
2018 Sarah Henderson, Brock University
2017 Emily Davis, Brock University

Independent Research Project Students

- 2016-2017 Jenny Sun, Harvard University
2016-2017 Shirley Lin, Harvard University
2015 Chloe Withers, University of Cambridge
2014 Jennifer Champion, University of Cambridge
2011-2012 Wei Lin, University of Toronto
2009-2010 Michelle Lee, University of Toronto
2008-2009 Robb Fatt, University of Toronto
2007-2008 Ahn Nguyen, University of Toronto

Contributions to seminars and workshops

- 2020, 2021 “Academic Careers Panel”, guest speaker, *Department of Psychology*, University of Toronto
2019 “Postdoc Information Session”, organizer, *Department of Psychology*, Brock University
2018 “Non-Academic Careers Panel”, organizer, *Department of Psychology*, Brock University
2017 “Graduate School Information Session”, guest speaker, *Department of Psychology*, Brock University
2017 “Academic Career Night Panel”, guest speaker, *Rotman Research Institute*, Baycrest, Toronto

Professional Development

- 2021 Workshop on Authentically Decolonizing and Indigenizing Your Classroom, *Centre for Pedagogical Innovation*, Brock University
2021 Lifespan Development Research Institute Knowledge Mobilization Workshop, Brock University (7-week course)
2020 Workshops for Online Teaching (Building Learning Communities; Designing Online Assessments for Academic Integrity; Tips for Building Your Best Sakai Site with the Lessons Tool), *Centre for Pedagogical Innovation*, Brock University
2019 Experiential Education 2-Day Institute, *Centre for Pedagogical Innovation*, Brock University
2017 Instructional Skills Workshop, *Centre for Pedagogical Innovation*, Brock University

- 2011 Teaching Fundamentals Certificate, *Centre for Teaching Support & Innovation*, University of Toronto (completed six 2-hour teaching workshops)
2008 Teaching Practicum, Department of Psychology, University of Toronto

UNIVERSITY/COMMUNITY SERVICE

Professional membership

Member of SPARK Society
Member of the Memory Disorders Research Society
Fellow of the Psychonomic Society
Member of the Cognitive Neuroscience Society

Professional society service

Organization for Human Brain Mapping Trainees Mentor (2021-)
Speed mentor for Women in Cognitive Sciences (2021-)
Organizing committee for the Lake Ontario Visionary Establishment Conference (2020-)
Organizing committee for the Memory Disorders Research Society 2021 meeting
Member of the Psychonomic Society Task Force on Racial Justice (2020-)

Editorial Activities

2021- Consulting Editor, *Aging, Neuropsychology, & Cognition*
2020- Consulting Editor, *Psychology and Aging*
2019-2020 Guest Editor, Special issue on Aging and Inhibition, *Psychology and Aging*

Ad Hoc Reviewing (I usually review ~24 papers per year)

Journals

Aging, Neuropsychology, and Cognition
Behavioural Brain Research
Brain Research
Cognition
Cognition & Emotion
Current Opinion in Behavioral Sciences
Developmental Psychology
Experimental Brain Research
Human Brain Mapping
Journal of Experimental Psychology: General
Journal of Experimental Psychology: Human Perception and Performance
Journal of Geriatric Psychiatry and Neurology
Journal of Gerontology: Psychological Sciences
Journal of Neuroscience

Language, Cognition, & Neuroscience

Memory

Nature Human Behaviour

Neurobiology of Aging

Neurobiology of Language

NeuroImage

Psychological Bulletin

Psychological Science

Psychology and Aging

Science

Science Advances

Trends in Neurosciences

Grant reviews

- 2019- NSERC Discovery Grant Program, External reviewer
- 2019- Swiss National Science Foundation, External reviewer
- 2018 McGill Healthy Brains for Healthy Lives Innovative Ideas Program, External reviewer
- 2011-2012 Rotman Research Institute, Internal reviewer of CIHR grant applications

Departmental Service

- 2020- Graduate Committee Member, Department of Psychology, Brock University
- 2020 Hiring Committee Member for Tenure-track position in Biological Psychology, Department of Psychology, Brock University
- 2019 Hiring Committee Member for Canada Research Chair in Biological Psychology, Department of Psychology, Brock University
- 2017-2020 Departmental Colloquium organizer, Department of Psychology, Brock University
- 2010-2012 Assistant organizer for Ebbinghaus Empire (cognitive group's weekly brown bag talks) Department of Psychology, University of Toronto
- 2006-2008 Social Coordinator, Psychology Graduate Students' Association, Department of Psychology, University of Toronto

University Service

- 2022 Internal Reviewer for programs in the Department of Physics, Brock University
- 2022 Faculty of Social Sciences Representative to the Advisory Committee on the Vice-President, Research, Brock University
- 2021- Steering Committee, Faculty Research Council, Brock University
- 2021- Internal reviewer for NSERC graduate awards, Brock University

Community Presentations

Campbell, K. L. (2021, February). Women in Science Presentation, Brock University, St. Catharines, Canada.

Campbell, K. L. (2021, January). *Learning more, not less – memory as we age*. Lifespan Institute Speaker Series, Webinar.

- Campbell, K. L.** (2019, November). *Healthy Cognitive Aging: What You Should (and Shouldn't) Be Doing*. Brock University Retirees' Association, St. Catharines, Canada.
- Campbell, K. L.** (2018, February). *Cognitive and Emotional Aging*. Webinar lecture for Distress and Crisis Ontario's Learning Forum on Aging and the Elderly.
- Campbell, K. L.** (2018, February). *Healthy Cognitive Aging: What You Should (and Shouldn't) Be Doing*. Niagara Falls University Women's Club, Niagara Falls, Canada.
- Campbell, K. L.** (2017, May). *Aging Well: Studying Healthy Cognitive Aging in Niagara*. Centre for Lifespan Development Research Speaker Series, St. Catharines, Canada.
- Lee, C. & **Campbell, K. L.** (2015, March). *Ageing Artists & Creativity*. Cambridge Science Festival, Cambridge, UK.

Media Exposure

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| June 12, 2020 | Consulting editor for National Geographic Bookazine on Memory |
| Aug. 12, 2020 | "Brock preliminary research finds less empathy in COVID-19 scenarios", The Brock News, https://brocku.ca/brock-news/2020/08/brock-preliminary-research-finds-less-empathy-in-covid-19-scenarios/ |
| July 10, 2020 | "Prestigious Early Career award recognizes Brock researcher", Education News Canada, https://educationnewscanada.com/article/education/category/achievements/131/845303/prestigious-early-career-award-recognizes-brock-researcher.html |
| Sept. 8, 2017 | "Brock researchers receive \$3.8M", St Catharines Standard, http://www.stcatharinesstandard.ca/2017/09/08/brock-researchers-receive-38m |
| May 3, 2017 | "Niagara aging population booming", St Catharines Standard http://www.stcatharinesstandard.ca/2017/05/03/niagara-aging-population-booming |
| Mar 29, 2017 | Guest on "Turtles All The Way Down" Podcast with Jake Koseleci, http://turtlesalltheway.libsyn.com/podcast |
| Dec. 2, 2016 | "Brock University gains two new Canada Research Chairs in workplace injury, aging", The Brock News, https://brocku.ca/brock-news/2016/12/brock-university-gains-two-new-canada-research-chairs-in-workplace-injury-aging/ |
| July 16, 2016 | "The brain's blueprint for aging is set early in life", Science News, https://www.sciencenews.org/article/brain-blueprint-aging-set-early-life |
| May 12, 2016 | "Older Adults Struggle More With Test Conditions Than Language Processing", Neuroscience News, http://neurosciencenews.com/aging-language-processing- |

[testing4225/?utm_source=feedburner&utm_medium=feed&utm_campaign=Feed%3A+neuroscience-rss-feeds-neuroscience-news+%28Neuroscience+News+Updates%29](https://www.buzzfeed.com/arranafrood/scary-science-a-geekas-guide-to-halloween-1mmog?utm_term=.seKPMEEg1#.wd30bZ74o)

- Oct. 29, 2015 "Scary Science: A Geek's Guide to Halloween", BuzzFeed,
https://www.buzzfeed.com/arranafrood/scary-science-a-geekas-guide-to-halloween-1mmog?utm_term=.seKPMEEg1#.wd30bZ74o
- Aug. 15, 2015 "Individual thinking comes with age", The Times,
<https://www.thetimes.co.uk/article/individual-thinking-comes-with-age-db2j2673j22>
- Aug. 14, 2015 "Young minds think alike; older people are more distractible", Science Daily,
<https://www.sciencedaily.com/releases/2015/08/150814101528.htm>
- Aug. 14, 2015 "Older People More Easily Distracted than the Young", Neuroscience News,
<http://neurosciencenews.com/psychology-distraction-aging-2440/>
- May 1, 2010 "Gray Hair, Silver Lining: The Workings of Wisdom", Psychology Today,
<https://www.psychologytoday.com/articles/201005/insights-news>
- Jan. 27, 2010 "Hyper-binding ain't for sissies", Association for Psychological Science News,
<http://www.psychologicalscience.org/news/were-only-human/hyper-binding-aint-for-sissies.html>
- Jan. 25, 2010 "Older brains make good use of 'useless' information", Science Daily,
<https://www.sciencedaily.com/releases/2010/01/100120161237.htm>
- Jan. 1, 2010 "Distractions may make us wiser in old age", NBC News,
<http://www.nbcnews.com/id/35130479/ns/health-aging/t/distractions-may-make-us-wiser-old-age/#.Wh8YU0qnGUi>