

Naohide Yamamoto, PhD

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I. BIOGRAPHICAL INFORMATION

CONTACT INFORMATION School of Psychology and Counselling Phone: +61 7 3138 4887
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 Kelvin Grove QLD 4059, Australia ORCID: orcid.org/0000-0001-9734-7470

ACADEMIC APPOINTMENTS Queensland University of Technology, Brisbane, Australia (2014–Present)
 Lecturer in Psychology and Counselling
 Member of the Institute of Health and Biomedical Innovation
 Cleveland State University, Cleveland, OH, USA (2009–14)
 Assistant Professor of Psychology
 George Washington University, Washington, DC, USA (2007–09)
 Postdoctoral Scientist in Psychology

EDUCATION Johns Hopkins University, Baltimore, MD, USA (2002–07)
 PhD in Psychological and Brain Sciences (2007; official conferral in 2008)
 MA in Psychology (2004)
 University of Tokyo, Japan (Postgraduate Program; 1999–2002)
 MEng in Urban Engineering (2001)
 University of Tokyo, Japan (Undergraduate Program; 1995–99)
 BEng in Urban Engineering (1999)

II. SCHOLARSHIP

RESEARCH INTERESTS Broad: Cognitive psychology and neuroscience of spatial navigation
 Specific: Spatial perception and memory; medial temporal lobe roles in spatial cognition;
 self-monitoring deficits in schizophrenia/schizotypy and their effects on locomotor
 navigation; and changes in visuospatial abilities in normal and pathological aging

PUBLICATIONS **Yamamoto, N.** (in press). Distance perception. In J. S. Kreutzer, J. DeLuca, & B. Caplan (Eds.), *Encyclopedia of clinical neuropsychology* (2nd ed.). New York, NY: Springer.
 Li, X., Allen, P. A., Lien, M.-C., & **Yamamoto, N.** (2016). Practice makes it better: A psychophysical study of visual perceptual learning and its transfer effects on aging. *Psychology and Aging*. Advance online publication. <http://doi.org/10.1037/pag0000145>
 Donaldson, M. J., & **Yamamoto, N.** (2016). Detection of object onsets and offsets: Does the primacy of onset persist even with bias for detecting offset? *Attention, Perception, & Psychophysics*, *78*, 1901–1915. <http://doi.org/10.3758/s13414-016-1185-5>
Yamamoto, N., Incera, S., & McLennan, C. T. (2016). A reverse Stroop task with mouse tracking. *Frontiers in Psychology*, *7*, 670. <http://doi.org/10.3389/fpsyg.2016.00670>
Yamamoto, N., Meléndez, J. A., & Menzies, D. T. (2014). Homing by path integration when a locomotion trajectory crosses itself. *Perception*, *43*, 1049–1060. <http://doi.org/10.1068/p7624>
Yamamoto, N., Philbeck, J. W., Woods, A. J., Gajewski, D. A., Arthur, J. C., Potolicchio, S. J., Jr., Levy, L., & Caputy, A. J. (2014). Medial temporal lobe roles in human path integration. *PLoS ONE*, *9*, e96583. <http://doi.org/10.1371/journal.pone.0096583>

- Yamamoto, N.**, & Philbeck, J. W. (2013). Intrinsic frames of reference in haptic spatial learning. *Cognition*, *129*, 447–456. <http://doi.org/10.1016/j.cognition.2013.08.011>
- Yamamoto, N.**, & Philbeck, J. W. (2013). Peripheral vision benefits spatial learning by guiding eye movements. *Memory & Cognition*, *41*, 109–121. <http://doi.org/10.3758/s13421-012-0240-2>
- Donaldson, M. J., & **Yamamoto, N.** (2012). Detection of object onset and offset in naturalistic scenes. In C. Stachniss, K. Schill, & D. Uttal (Eds.), *Lecture Notes in Computer Science: Vol. 7463. Spatial Cognition VIII* (pp. 451–460). Berlin, Germany: Springer-Verlag. http://doi.org/10.1007/978-3-642-32732-2_29
- Yamamoto, N.** (2012). The role of active locomotion in space perception. *Cognitive Processing*, *13*, S365–S368. <http://doi.org/10.1007/s10339-012-0462-z>
- Yamamoto, N.**, & DeGirolo, G. J. (2012). Differential effects of aging on spatial learning through exploratory navigation and map reading. *Frontiers in Aging Neuroscience*, *4*, 14. <http://doi.org/10.3389/fnagi.2012.00014>
- Yamamoto, N.**, & Hirsch, D. A. (2012). “What” versus “how” in nonvisual whole-body movement. In N. Miyake, D. Peebles, & R. P. Cooper (Eds.), *Proceedings of the 34th Annual Conference of the Cognitive Science Society* (pp. 2558–2563). Austin, TX: Cognitive Science Society. <http://mindmodeling.org/cogsci2012/papers/0444/>
- Shelton, A. L., & **Yamamoto, N.** (2009). Visual memory, spatial representation, and navigation. In J. R. Brockmole (Ed.), *The visual world in memory* (pp. 140–177). Hove, UK: Psychology Press. <http://doi.org/10.4324/9780203889770>
- Yamamoto, N.**, & Shelton, A. L. (2009). Orientation dependence of spatial memory acquired from auditory experience. *Psychonomic Bulletin & Review*, *16*, 301–305. <http://doi.org/10.3758/PBR.16.2.301>
- Yamamoto, N.**, & Shelton, A. L. (2009). Sequential versus simultaneous viewing of an environment: Effects of focal attention to individual object locations on visual spatial learning. *Visual Cognition*, *17*, 457–483. <http://doi.org/10.1080/13506280701653644>
- Yamamoto, N.**, & Shelton, A. L. (2008). Integrating object locations in the memory representation of a spatial layout. *Visual Cognition*, *16*, 140–143. <http://doi.org/10.1080/13506280701692097>
- Yamamoto, N.**, & Shelton, A. L. (2007). Path information effects in visual and proprioceptive spatial learning. *Acta Psychologica*, *125*, 346–360. <http://doi.org/10.1016/j.actpsy.2006.09.001>
- Yamamoto, N.**, & Shelton, A. L. (2005). Visual and proprioceptive representations in spatial memory. *Memory & Cognition*, *33*, 140–150. <http://doi.org/10.3758/BF03195304>
- Ohba, T., Yanagimachi, K., Kinoshita, R., **Yamamoto, N.**, Tamagawa, H., & Itoh, F. (2002). Benefit evaluation for information providing system by WebGIS in view of users’ travel costs. *Theory and Applications of GIS*, *10*(1), 59–66. [in Japanese] <http://doi.org/10.5638/thagis.10.59>
- Yamamoto, N.**, & Okabe, A. (2002). An experimental analysis of direction judgment in a curved corridor. *Journal of Architecture, Planning and Environmental Engineering*, *559*, 165–170. [in Japanese] <http://ci.nii.ac.jp/naid/110004081805>
- Yamamoto, N.**, & Okabe, A. (2002). Qualitative spatial reasoning about directions in a corridor containing a single turn. *MERA Journal*, *7*(2), 11–20. [in Japanese] <http://ci.nii.ac.jp/naid/110009665205>
- Yamamoto, N.** (1999). Review: GIS and spatial analysis of housing and mortgage markets. *The Quarterly Journal of Housing and Land Economics*, *33*, 36–39. [in Japanese] http://www.hrf.or.jp/app/Display/popup/?table_id=table2&id=33

MANUSCRIPTS
IN PROGRESS

- Chaaya, N., Bergstrom, H. C., Jacques, A., **Yamamoto, N.**, Battle, A. R., & Johnson, L. R. (under review). *Relative encoding of contextual information for aversive versus neutral stimuli within amygdala, hippocampus and perirhinal cortex.*
- Wilke, N., Lacherez, P., & **Yamamoto, N.** (under review). *Unravelling multiple biases in the perception of the spinning dancer illusion.*
- Yamamoto, N.**, & Donaldson, M. J. (under review). *Ageing and the primacy of object onset in visual change detection.*

MAJOR
CONFERENCE
PRESENTATIONS

- Donaldson, M. J., **Yamamoto, N.**, & Allard, E. S. (2016, November). *Attentional flexibility increases with age in visual change detection.* Poster presented at the 57th annual meeting of the Psychonomic Society, Boston, MA.
- Yamamoto, N.**, Cheung, A., Baumann, O., & Maczkowiack, J. (2016, November). *Can disoriented humans determine their location without external cues?* Talk given at the 57th annual meeting of the Psychonomic Society, Boston, MA.
- Yamamoto, N.**, & Fox, M. J. (2015, November). *Age-related changes in spatial learning: Roles of orientations and perspectives.* Talk given at the 56th annual meeting of the Psychonomic Society, Chicago, IL.
- Donaldson, M. J., & **Yamamoto, N.** (2014, November). *Detection of onsets versus offsets: Is our attentional system flexible?* Poster presented at the 55th annual meeting of the Psychonomic Society, Long Beach, CA.
- Yamamoto, N.**, Philbeck, J. W., Woods, A. J., Gajewski, D. A., Arthur, J. C., Potolicchio, S. J., Jr., Levy, L., & Caputy, A. J. (2014, July). *Medial temporal lobe roles in human path integration.* Poster presented at the 12th International Conference on Cognitive Neuroscience, Brisbane, Australia.
- Yamamoto, N.**, Rohde, L. V., & Qadir, S. (2014, July). *Abnormal imagined walking in high-schizotypal individuals.* Poster presented at the 18th annual conference of the Association for the Scientific Study of Consciousness, Brisbane, Australia.
- Yamamoto, N.**, DeGirolamo, G. J., & Fox, M. J. (2013, November). *Effects of perspective and orientation on age-related changes in spatial learning.* Poster presented at the 54th annual meeting of the Psychonomic Society, Toronto, Canada.
- Yamamoto, N.**, & Donaldson-Misener, M. J. (2013, November). *Aging and the primacy of object onset in visual change detection.* Poster presented at the 54th annual meeting of the Psychonomic Society, Toronto, Canada.
- Donaldson, M. J., & **Yamamoto, N.** (2012, September). *Detection of object onset and offset in naturalistic scenes.* Talk given at Spatial Cognition 2012, Seon, Germany.
- Yamamoto, N.** (2012, September). *The role of active locomotion in space perception.* Talk given at the 5th International Conference on Spatial Cognition, Rome, Italy.
- Yamamoto, N.**, & Hirsch, D. A. (2012, August). *“What” versus “how” in nonvisual whole-body movement.* Poster presented at the 34th annual conference of the Cognitive Science Society, Sapporo, Japan.
- Yamamoto, N.**, & Muschter, E. (2011, November). *Schizotypal traits and nonvisual space perception: Exploring the role of efference copy.* Poster presented at the 52nd annual meeting of the Psychonomic Society, Seattle, WA.
- Yamamoto, N.**, & Muschter, E. (2011, May). *Schizotypal traits and distance perception.* Poster presented at the 23rd annual convention of the Association for Psychological Science, Washington, DC.
- Sargent, J. Q., Gajewski, D. A., & **Yamamoto, N.** (2009, November). *Effects of spatial and temporal proximity on chunking in spatial memory.* Poster presented at the 50th annual meeting of the Psychonomic Society, Boston, MA.

- Yamamoto, N.**, & Philbeck, J. W. (2009, November). *What role does peripheral vision play in learning spatial layouts?* Poster presented at the 50th annual meeting of the Psychonomic Society, Boston, MA.
- Yamamoto, N.**, & Philbeck, J. W. (2009, May). *When imagined walking is inaccurate, what is misperceived?* Poster presented at the 9th annual meeting of the Vision Sciences Society, Naples, FL.
- Yamamoto, N.**, Philbeck, J. W., Fedio, P., Potolicchio, S. J., Caputy, A. J., de Leonni Stanonik, M., & Kontra, C. E. (2009, March). *Navigating across the lifespan: Path integration deficits in patients with mild cognitive impairment.* Poster presented at the 16th annual meeting of the Cognitive Neuroscience Society, San Francisco, CA.
- Yamamoto, N.**, & Philbeck, J. W. (2008, November). *Egocentric and intrinsic frames of reference in haptic spatial learning.* Poster presented at the 49th annual meeting of the Psychonomic Society, Chicago, IL.
- Yamamoto, N.**, & Philbeck, J. W. (2008, July). *Encoding spatial layout in the dark: Robustness of visual spatial learning.* Poster presented at the 30th annual meeting of the Cognitive Science Society, Washington, DC.
- Yamamoto, N.**, & Philbeck, J. W. (2008, May). *Little evidence of perceptual depth compression when indicating extents by imagined walking.* Poster presented at the 8th annual meeting of the Vision Sciences Society, Naples, FL.
- Shelton, A. L., Marchette, S. A., & **Yamamoto, N.** (2007, November). *Place and response mechanisms in human environmental learning.* Talk given at the 48th annual meeting of the Psychonomic Society, Long Beach, CA.
- Yamamoto, N.**, & Shelton, A. L. (2007, November). *Integrating object locations in the memory representation of a spatial layout.* Talk given at the 15th annual workshop on Object Perception, Attention, & Memory, Long Beach, CA.
- Shelton, A. L., **Yamamoto, N.**, & Marchette, S. (2007, August). *Spatial representation at the intersection of perception, attention, reasoning, and memory.* Talk given at the 13th annual meeting of the Cognitive Science Association for Interdisciplinary Learning, Hood River, OR.
- Shelton, A. L., **Yamamoto, N.**, & Marchette, S. A. (2007, May). *Linking neural correlates to learning mechanisms in spatial learning.* Poster presented at the 19th annual convention of the Association for Psychological Science, Washington, DC.
- Yamamoto, N.**, & Shelton, A. L. (2006, November). *Organization of spatial memories acquired from unimodal and multimodal experiences.* Poster presented at the 47th annual meeting of the Psychonomic Society, Houston, TX.
- Shelton, A. L., **Yamamoto, N.**, & Fields, A. W. (2006, April). *Out of order: Sequence effects on spatial learning in the brain.* Poster presented at the 13th annual meeting of the Cognitive Neuroscience Society, San Francisco, CA.
- Yamamoto, N.**, & Shelton, A. L. (2005, August). *Sounds, spaces, and long-term traces: Auditory spatial layouts.* Poster presented at the 113th annual convention of the American Psychological Association, Washington, DC.
- Yamamoto, N.**, & Shelton, A. L. (2004, November). *The role of path information in visual and proprioceptive spatial learning.* Poster presented at the 45th annual meeting of the Psychonomic Society, Minneapolis, MN.
- Shelton, A. L., Fields, A. W., & **Yamamoto, N.** (2004, April). *Differential effects of disrupting sequential information in route and survey learning.* Poster presented at the 11th annual meeting of the Cognitive Neuroscience Society, San Francisco, CA.

RESEARCH GRANTS	<p>Yamamoto, N., & Johnston, P. <i>An fMRI study on the brain's location tracking system</i>. Mid-Career Researcher Development Scheme, Institute of Health and Biomedical Innovation, Queensland University of Technology (2016–17, A\$9,920). Role: Chief Investigator</p> <p>Kerr, G., Johnston, P., Yamamoto, N., Rose, S., & Breakspear, M. <i>Dopaminergic contributions to bodily representations in Parkinson's disease</i>. Herston Imaging Research Facility Seed Grant, Queensland University of Technology (2016–17, A\$40,000) Role: Co-Investigator</p> <p>Yamamoto, N. Early Career Academic Recruitment and Development Grant, Queensland University of Technology (2015–17, A\$15,000)</p> <p>Yamamoto, N. <i>Space perception across the lifespan</i>. Undergraduate Research and Creative Achievement Award, Cleveland State University (2013, US\$9,760)</p> <p>Yamamoto, N. <i>Spatial navigation by patients with Parkinson's disease</i>. Faculty Research and Development Award, Cleveland State University (2012–13, US\$19,964)</p> <p>Yamamoto, N. <i>Roles of afferent and efferent signals in space perception</i>. Undergraduate Research and Creative Achievement Award, Cleveland State University (2012, US\$7,177)</p> <p>Yamamoto, N. <i>Schizotypal traits and self-motion sensing: Exploring the role of bodily senses in space perception</i>. Undergraduate Research and Creative Achievement Award, Cleveland State University (2011, US\$4,448)</p> <p>Yamamoto, N. <i>Systems analysis of distance perception through self-motion senses</i>. Undergraduate Research and Creative Achievement Award, Cleveland State University (2010, US\$6,947)</p>
AWARDS AND FELLOWSHIPS	<p>Faculty Merit Recognition Award, Cleveland State University (2012 and 2013)</p> <p>Graduate Fellowship, The Nakajima Foundation (2002–07)</p> <p>Fulbright Award for Graduate Study, Japan-US Educational Commission (2002)*</p>
PROFESSIONAL MEMBERSHIP	<p>Association for the Scientific Study of Consciousness (2013–Present)</p> <p>Psychonomic Society (2007–Present)</p>

III. TEACHING

TEACHING INTERESTS	Cognitive psychology and neuroscience; sensation and perception; research methods; psychology lab; psychology of aging; spatial cognition; and environmental psychology
COURSES TAUGHT	<p>Queensland University of Technology (2014–Present) Psychological Research Methods and Perception and Cognition</p> <p>Cleveland State University (2009–14) Memory and Cognition (both traditional and online formats); Brain and Cognition; Psychology Lab; Honors Seminar; Sensorimotor Processes in Adulthood; Field Placement; Independent Study; and Research and Thesis</p> <p>Johns Hopkins University (2006) Lab in Analysis of Psychological Data</p>

* Alternate candidate; declined due to funding overlap with the Nakajima fellowship

TEACHING OR TRAINING GRANTS	Judge, K., McLennan, C., Yamamoto, N. , & Kahana, B. <i>Fellowship in applied aging research</i> . Benjamin Rose Institute on Aging (2012–13, US\$7,000) Yamamoto, N. <i>E-learning program development</i> . Cleveland State University Center for eLearning (2011, funding for release from teaching)
STUDENTS SUPERVISED	Postgraduate Students (at Cleveland State University) Michael Fox (MA in Psychology, 2012–14) Lucinda Rohde (MA in Psychology, 2012–15) Dale Hirsch (MA in Psychology, 2011–13) Gregory DeGirolamo (MA in Psychology, 2010–12) Maria Donaldson (MA & PhD in Psychology, 2009–14) Undergraduate Students Ellen Boys, Natalya Greenwood, Joel Maczkowiack, Jodi Ord, Joanne Renton, Max Wright, and Jennifer Van Pelt (at Queensland University of Technology); and Serena Cristino, Laura Elias, Astrid Hernandez, Dale Hirsch, Anita Isom, Kamil Klinkosz, Dagmara Mach, Jayleen Meléndez, Derek Menzies, Kimberly Moran, Evelyn Muschter, Govind Sailesh Pappu, Saliha Qadir, Lucinda Rohde, and Jessica Willesch (at Cleveland State University)

IV. SERVICE

EDITORIAL ACTIVITIES	Consulting Editor Journal of Experimental Psychology: Learning, Memory, and Cognition (2014–Present) Ad-Hoc Reviewer Journals: Acta Psychologica; Aging, Neuropsychology, and Cognition; Experimental Brain Research; Frontiers in Human Neuroscience; Human Factors; International Journal of Aging and Human Development; Investigative Ophthalmology & Vision Science; Journal of Clinical and Experimental Neuropsychology; Journal of Experimental Psychology: General; Journal of Experimental Psychology: Learning, Memory, and Cognition; Journals of Gerontology B: Psychological Sciences; Memory & Cognition; Perceptual & Motor Skills; PLOS ONE; Psychonomic Bulletin & Review; Seeing and Perceiving; Swiss Journal of Psychology; and Visual Cognition Books: Cognitive Science Society and MIT Press
GRANT REVIEW	Ad-Hoc Reviewer Alzheimer's Disease Center Pilot Grant, University of California, Davis Innovational Research Incentives Scheme, Netherlands Organisation for Scientific Research
UNIVERSITY SERVICE	Cleveland State University Director of Psychology Honors Program (2013) Member of Tenure-Track Psychology Faculty Search Committee (2013–14) Member of Visiting Psychology Faculty Search Committee (2013) Administrator of Psychology Research Participant Pool (2012–14) Advisor to Psychology Pre-Medical Students (2012–14) Psychology Library Liaison (2012–14) Member of Psychology Task Force on Promotion and Tenure Standard (2012–13) Member of Adult Development and Aging PhD Program Committee (2009–14) Member of Experimental Psychology MA Program Committee (2009–14)