

NASEEM AL-AIDROOS

Curriculum Vitae, October 2014

Psychology Department
University of Guelph
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1. ACADEMIC APPOINTMENTS

2012 – present Assistant Professor
University of Guelph, Department of Psychology
2010 – 2011 Postdoctoral Research Fellow
Princeton University, Department of Psychology

2. EDUCATION

2006 – 2010 University of Toronto
Ph.D. in Experimental Psychology
2005 – 2006 University of Toronto
Master of Arts in Experimental Psychology
1998 – 2004 University of Waterloo
Bachelor of Mathematics, Honours Computer Science (Co-op) and
Honours Psychology

3. FUNDING

a. Grants

2013 – 2018 CFI Leaders Opportunity Fund (\$312,458)
2012 – 2017 NSERC Discovery Grant (\$150,000)

b. Awards and fellowships

2010 – 2012 NSERC Postdoctoral Fellowship (\$80,000)
2007 – 2009 NSERC Canada Graduate Scholarship, Doctorate Level (\$70,000)
2007 Ontario Graduate Scholarship (\$15,000-declined)
2005 – 2007 NSERC Canada Graduate Scholarship, Masters Level (\$38,500)
2006 Ontario Graduate Scholarship (\$15,000-declined)
2006 University of Toronto PSA Award of Excellence in Teaching Assistance
2005 University of Waterloo President's Graduate Scholarship (\$10,000-declined)
2005 Ontario Graduate Scholarship (\$15,000-declined)

4. RESEARCH

a. Research endeavours

The visual cognitive neuroscience of consciousness, with an emphasis on how *attention* tunes our visual minds and brains based on our current goals, actions, and past experiences to guide the contents of visual awareness. To investigate the cognitive and neural mechanisms that underlie attention, I employ a range of converging measures, including behaviour (reaction time, accuracy, limb tracking, and eye tracking), pupilometry, electroencephalography (EEG; especially event-related potentials, ERP), and functional magnetic resonance imaging (fMRI).

b. Refereed journal articles

- Guild, E. B., Cripps, J. M., Anderson, N. D., & Al-Aidroos, N. (2014). Recollection can support hybrid visual-memory search. *Psychonomic Bulletin & Review*, 21(1), 142-148.
- West, G. L., Al-Aidroos, N., & Pratt, J. (2013). Action video game experience affects oculomotor performance. *Acta Psychologica*, 142(1), 38-42.
- Zhao, J., Al-Aidroos, N., & Turk-Browne, N. B. (2013). Attention is spontaneously biased towards regularities. *Psychological Science*, 24(5), 667-677.
- Al-Aidroos, N., Said, C. P., & Turk-Browne, N. B. (2012). Top-down attention switches coupling between low-level and high-level areas of human visual cortex. *Proceedings of the National Academy of Sciences*, 109(56), 14675-14680.
- Al-Aidroos, N., Emrich, S. M., Ferber, S., & Pratt, J. (2012). Visual working memory supports the inhibition of previously processed information: Evidence from preview search. *Journal of Experimental Psychology: Human Perception and Performance*, 38(3), 643-663.
- Qian, C., Al-Aidroos, N., West, G. L., Abrams, R. A., & Pratt, J. (2012). The visual P2 is attenuated for objects near the hands. *Cognitive Neuroscience*, 3(2), 98-104.
- Radulescu, P. V., Al-Aidroos, N., Adam, J. J., Fisher, M. J., & Pratt, J. (2011). Modulating Fitts's Law: Perceiving targets at the last placeholder. *Acta Psychologica*, 137(1), 101-105.
- West, G. L., Al-Aidroos, N., Susskind, J., & Pratt, J. (2011). Emotion and action: The effect of fear on saccadic performance. *Experimental Brain Research*, 209(1), 153-158.
- Al-Aidroos, N., Guo, R-M, & Pratt, J. (2010). You can't stop new motion: Attentional capture despite a control set for color. *Visual Cognition*, 18(6), 859-880.
- Al-Aidroos, N., Harrison, S. & Pratt, J. (2010). Attentional control settings prevent abrupt onsets from capturing visual spatial attention. *Quarterly Journal of Experimental Psychology*, 63(1), 31-41.
- Al-Aidroos, N. & Pratt, J. (2010). Top-down control in time and space: Evidence from saccadic latencies and trajectories. *Visual Cognition*, 18(1), 26-49.
- Campbell, K. L., Al-Aidroos, N., Fatt, R., Hasher, L., & Pratt, J. (2010). The effects of multisensory targets on saccadic trajectory deviations. *Experimental Brain Research*, 201(3), 385-392.
- Emrich, S. M., Al-Aidroos, N., Pratt, J., & Ferber, S. (2010). Finding memory in search: The effect of visual working memory load on visual search. *Quarterly Journal of Experimental Psychology*, 63(8), 1457-1466.
- 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*, 29(1), 163-168.
- Emrich, S. M., Al-Aidroos, N., Pratt, J., & Ferber, S. (2009). Visual search elicits the electrophysiological marker of visual working memory. *PLoS ONE*, 4(11): e8042.
- Al-Aidroos, N., Fischer, M., Adam, J. J., & Pratt, J. (2008). Structured perceptual arrays and the modulation of Fitts's law: Examining saccadic eye movements. *Journal of Motor Behavior*, 40(2), 155-164.
- Emrich, S. M., Ruppel, J. D. N., Al-Aidroos, N., Pratt, J., & Ferber, S. (2008). Out with the old: Inhibition of old items in a preview search is limited. *Perception & Psychophysics*, 70(8), 1552-1557.
- Stevens, S. A., West, G. L., Al-Aidroos, N., Weger, U. W., & Pratt, J. (2008). Testing whether gaze cues and arrow cues produce reflexive or volitional shifts of attention. *Psychonomic Bulletin & Review*, 15(6), 1148-1153.

- Weger, U. W., Al-Aidroos, N., & Pratt, J. (2008). Objects do not aid inhibition of return in crossing the vertical meridian. *Psychological Research*, 72(2), 176-182.

c. Conference talks

- Giammarco, M., Paoletti, A., Guild, E., & Al-Aidroos, N., (2014, July). *Contingent attentional capture by stimuli that match long-term memory representations*. To be presented at the 24th Annual Meeting of the Canadian Society for Brain, Behaviour, and Cognitive Science, Toronto, Ontario
- Al-Aidroos, N., Tomparly, A., & Turk-Browne, N. B. (2013, May). *Attending to what and where: Background connectivity integrates category-based and spatial attention*. Presented at the 13th Annual Meeting of the Vision Sciences Society, Naples, Florida.
- Zhao, J., Al-Aidroos, N., & Turk-Browne, N. B. (2012, May). *Attention is spontaneously drawn to statistical regularities*. Presented at the 12th Annual Meeting of the Vision Sciences Society, Naples, Florida.
- Al-Aidroos, N., Said, C. P., & Turk-Browne, N. B. (2011, November). *Goal-directed attention switches background connectivity in human visual cortex*. Presented at the 41st Annual Meeting of the Society for Neuroscience, Washington, D. C.
- Al-Aidroos, N., Adamo, M., Tam., J., Ferber, S., & Pratt, J. (2010, May). *How does reflexive visuospatial attention speed target processing?* Presented at the 10th Annual Meeting of the Vision Sciences Society, Naples, Florida.
- Emrich, S. M., Al-Aidroos, N., Pratt, J., & Ferber, S. (2009, April). *Visual working memory supports inhibition during visual search*. Presented at the 17th Annual Cognitive Neuroscience Meeting, Montreal, Quebec.
- Al-Aidroos, N. & Pratt, J. (2009, July). *Attentional determinants of visual working memory capacity*. Presented at the Joint Meeting of the Experimental Psychological Society and Canadian Society for Brain, Behaviour and Cognitive Science, York, United Kingdom.
- Stolz, J. A., Al-Aidroos, N., Robidoux, S., & Besner, D. (2005, November). *Visual word recognition: Is a hybrid connectionist framework needed?* Presented at the 46th Annual Meeting of the Psychonomic Society, Toronto, Ontario.

d. Conference posters

- Dube, B., & Al-Aidroos, N. (2014, July). *Monetary rewards speed conscious visual perception*. To be presented at the 24th Annual Meeting of the Canadian Society for Brain, Behaviour, and Cognitive Science, Toronto, Ontario.
- Al-Aidroos, N., Giammarco, M., Paoletti, A., & Guild, E. (2014, May). *Contingent attentional capture by stimuli that match long-term memory representations*. Presented at the 13th Annual Meeting of the Vision Sciences Society, St. Petersburg, Florida.
- Guild, E., Cripps, J. M., & Al-Aidroos, N. (2013, May). *Visual search for multiple targets remains efficient when supported by recollective long-term memory*. Presented at the 12th Annual Meeting of the Vision Sciences Society, Naples, Florida.
- Tomparly, A., Al-Aidroos, N. A., & Turk-Browne, N. B. (2012, November). *Modulation of background connectivity in human visual cortex by spatial attention*. Poster presented at the 42nd Annual Meeting of the Society for Neuroscience, New Orleans, Louisiana.

- Al-Aidroos, N., Said, C. P., & Turk-Browne, N. B. (2011, May). *Top-down attention alters fMRI background connectivity between retinotopic and category-specific visual areas*. Poster presented at the 11th Annual Meeting of the Vision Sciences Society, Naples, Florida.
- West, G. L., Qian, S., Al-Aidroos, N., Abrams, R., & Pratt, J. (2011, May). *The visual P2 is attenuated for objects near the hands*. Poster presented at the 11th Annual Meeting of the Vision Sciences Society, Naples, Florida.
- Al-Aidroos, N., Adamo, M., Ferber, S., & Pratt, J. (2009, November). *Does reflexive attentional orienting speed visual processing by biasing visual working memory?* Presented at the 50th Annual Meeting of the Psychonomic Society, Boston, Massachusetts.
- West, G. L., Al-Aidroos, N., & Pratt, J. (2009, November). *Action video game playing modulates oculomotor action*. Presented at the 50th Annual Meeting of the Psychonomic Society, Boston, Massachusetts.
- Fatt, R., Campbell, K., Al-Aidroos, N., Pratt, J., & Hasher, L. (2009, August). *Multisensory interactions in saccade curvature: Effects of bimodal targets*. Presented at the 117th Annual Convention of the American Psychological Association, Toronto, Ontario.
- Al-Aidroos, N. & Pratt, J. (2009, May). *Does attentional capture guide the contents of visual memory?* Presented at the 9th Annual Meeting of the Vision Sciences Society, Naples, Florida.
- Al-Aidroos, N., Guo, R-M., West, G. L., & Pratt, J. (2008, November). *The onset of motion defeats attentional control settings*. Presented at the 49th Annual Meeting of the Psychonomic Society, Chicago, Illinois.
- Al-Aidroos, N., Ho, K., & Pratt, J. (2008, May). *Attentional control settings affect attention but not perception: A study of gaze cues and pupilometry*. Presented at the 8th Annual Meeting of the Vision Sciences Society, Naples, Florida.
- Pratt, J., Al-Aidroos, N., Campbell, K. & Hasher, L. (2008, May). *Repelling the young and attracting the old: Examining age-related changes in saccadic trajectory deviations*. Presented at the 8th Annual Meeting of the Vision Sciences Society, Naples, Florida.
- Emrich, S. M., Al-Aidroos, N., Pratt, J., & Ferber, S. (2008, May). *The search for memory: Visual short-term memory capacity predicts performance during visual search*. Presented at the 8th Annual Meeting of the Vision Sciences Society, Naples, Florida.
- Al-Aidroos, N., Stevens, S. A., West, G. L., Weger, U. W., McAuliffe, J., & Pratt, J. (2007, November). *Examining the automaticity of symbolic attentional cues: Do gaze cues and arrow cues enhance perception?* Presented at the 48th Annual Meeting of the Psychonomic Society, Long Beach, California.
- Al-Aidroos, N., Stevens, S. A., West, G. L., Weger, U. W., & Pratt, J. (2007, June). *Gaze cues and arrow cues produce reflexive shifts in attention that do not affect perceptual accuracy*. Presented at the Centre for Vision Research Conference, Toronto, Ontario.
- Al-Aidroos, N., Emrich, S. M., Pratt, J., & Ferber, S. (2007, May). *Prioritization of new objects during visual search is limited by the capacity of visual short-term memory*. Presented at the 7th Annual Meeting of the Vision Sciences Society, Sarasota, Florida.
- Stojanoski, B, Al-Aidroos, N., Pratt, J., Niemier, M. (2007, May). *On the relationship between object-based and feature-based attention*. Presented at the 7th Annual Meeting of the Vision Sciences Society, Sarasota, Florida.
- Al-Aidroos, N., & Pratt, J. (2006, November). *The Effects of Attentional Set on Saccades*. Presented at the 47th Annual Meeting of the Psychonomic Society, Houston, Texas.

- Weger, U. W., Al-Aidroos, N., & Pratt, J. (2006, November). *Inhibition of Return with Endogenous Cues*. Presented at the 47th Annual Meeting of the Psychonomic Society, Houston, Texas.

e. Invited colloquia

Centre for Vision Research, York University (September, 2013)

Psychology Department, Brock University (March, 2013)

Collaborative Neuroscience Program, University of Guelph (December, 2012)

Neuroscience and Applied Cognitive Sciences Area, University of Guelph (October, 2012)

Cognitive and Cognitive Neurosciences Area, University of Wisconsin—Madison (July, 2012)

Rotman Research Institute, Baycrest Hospital (September, 2011)

Psychology Department, University of Guelph (March, 2011)

5. PROFESSIONAL AFFILIATIONS AND ACTIVITIES

a. Academic memberships

American Psychological Association

Association for Psychological Science

Psychonomic Society

The Canadian Society for Brain, Behaviour and Cognitive Science

The Society for Neuroscience

Vision Sciences Society

b. Editorial activity

Associate editor, *Journal of Experimental Psychology: Human Perception and Performance*, 2014 – present

Consulting editor, *Journal of Experimental Psychology: Human Perception and Performance*, 2012 – 2014

c. Adhoc reviewer

Attention Perception & Psychophysics

Frontiers in Emotion Science

Handbook of Attention

Journal of Cognitive Neuroscience

Journal of Experimental Psychology: Human Perception and Performance

Journal of Vision

PLoS ONE

SURGE

Visual Cognition

6. UNDERGRADUATE TEACHING

a. Undergraduate courses taught

PSYC*4600 Cognitive Neuroscience, University of Guelph (2013 – present, 2 times)

PSYC*2390 Sensation and Perception, University of Guelph (2013 – present, 2 times)

PSYC*2360 Introductory Research Methods, University of Guelph (2012 – present, 4 times)

PSY375 Attention and Performance, University of Toronto (2010, 1 time, co-instructor)
PSY290 Biological Psychology, University of Toronto (2009, 1 time, co-instructor)

b. Invited lectures

NEUR*4000 Current Issues in Neuroscience, Neural basis of visual attention (2013 – 2014, 2 times)

c. PSYC*4870/80, Honours Thesis

Elizabeth Infante (2013 – 2014)	Attentional consequences of long-term memory consolidation
Adriana Paoletti (2013 – 2014)	Spatial attentional capture by previously memorized information
April Basciano (2012 – 2013)	Simultaneous facilitating and inhibition by working memory
Jeremy Marty-Dugas (2012 – 2013)	Pupilometry reveals the time course of visual statistical learning

d. PSYC*4510, Current Issues in Psychology

Brendon Samuels (2014)	Gaze-direction measures of attention during visual statistical learning
Rayanne Thompson (2013)	Impaired working memory by long-term memory consolidation

e. PSYC*4500, Current Theoretical Issues in Psychology

Brendon Samuels (2013)	Pupil-size measures of attention during visual statistical learning
Rayanne Thompson (2012)	Attentional capture by long-term memory consolidation
Jenna Cripps (2013)	Previewing items during long-term memory search

f. PSYC*3900, Psychology Research Internship

Jacob Lindsay-Kolari (2014)	Modeling working memory: Are swaps errors?
Krista Miller (2014)	How does statistical structure guide attention over time?
Kate Turner (2014)	Set size affects contingent attentional capture by long-term memory
Andrew Coyne (2013)	Effects of passengers on driving performance
Jenna Cripps (2012)	Efficient search through recollective long-term memory

7. GRADUATE TEACHING

a. Graduate courses taught

PSYC*6740/60 Graduate Research Seminar Series, University of Guelph (2013 – present, 2 times)

b. Invited lectures

NEUR*6000 Seminar in Neuroscience, Sensation and Perception lecture (2012 – 2014, 3 times)
PSY3001HF Professional Psychology, University of Toronto, From postdoc to professor (2012 – 2013, 2 times)

c. Master's and PhD supervision

Blaire Dube (2013-present)
Maria Giammarco (2013-present)

d. Master's PhD thesis committee

Meenu Minhas (2014-present)
Timothy Worden (2013-present)
Natasha Dienes (2012-present)

e. Practicum students

David De Vito (2013-present)

8. DEPARTMENTAL AND UNIVERSITY SERVICE

a. Service roles and committees within the University of Guelph

Committee for the Creation of a Neuroscience Major (2014 – present)

NACS Website Coordinator (2013 – present)

SONA Participant Pool Administrator (2012 – present)

B.Sc. Academic Advisor (2012 – present)

b. PhD qualifying exam committee

Timothy Worden (2014 – present)

AnneMarie Levy (2014 – present)

Helene Tanguay (2012 – 2013)

Brian Douglas (2012)

c. PhD thesis defense chair or committee

Craig Allen (2014)

Asma Hanif (2013)

Anne Ferrey (2012)