

BLAIRE DUBE, PHD

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curriculum vitae

academic appointments

2019-current **Postdoctoral Scholar**
Department of Psychology
The Ohio State University
Advisor: Dr. Julie Golomb

education

2015-2019 **PhD Psychology and Neuroscience**
Neuroscience & Applied Cognitive Science
University of Guelph
Advisor: Dr. Naseem Al-Aidroos

2017 **Honorary Research Fellow**
Cognitive Psychology
Vrije Universiteit Amsterdam
Advisor: Dr. Christian N. L. Olivers

2013-2015 **MSc Psychology, Neuroscience Specialization**
Neuroscience & Applied Cognitive Science
University of Guelph
Advisor: Dr. Naseem Al-Aidroos

2008-2012 **Hon BA Psychology**
Brock University
First Class Distinction
Advisors: Dr. Gordon Hodson and Dr. Karen Arnell

scholarships & awards

2021-2023 NSERC Postdoctoral Fellowship (\$90,000)
2020 Canadian Psychological Association Certificate of Excellence: Doctoral Thesis Award
2020 CAGS/ProQuest Distinguished Dissertation Award Nominee
2017 NSERC Michael Smith Foreign Study Supplement (\$6,000)
2017 Elsevier/Vision Research Travel Award (VSS Student Travel Award) (\$500)
2016 Canadian Psychological Association Certificate of Excellence: Master's Thesis Award
2015-2018 CSAHS Dean's Tri-Council Scholarship (\$15,000)
2015-2018 NSERC Canada Graduate Scholarship, Doctoral Level (\$105,000)

2015	Ontario Graduate Scholarship (\$15,000 – declined)
2014	CSAHS Dean's Scholarship (\$2,500)
2014	Ontario Graduate Scholarship (\$15,000)
2013	CSAHS Dean's Scholarship (\$2,500)
2009-2012	Dean's Honour List
2008-2012	Brock Scholar's Award (\$8,000)

refereed publications (*denotes student contributor)

Plater, L., **Dube, B.**, Giammarco, M., Donaldson, K., Miller, K., & Al-Aidroos, N. (*submitted*). Revisiting the role of visual working memory in attentional control settings. *Visual Cognition*.

Lockhart, H.A., **Dube, B.**, MacDonald, K. J., Al-Aidroos, N., & Emrich, S. M. (*under revision*). Individual differences in multiple cues guiding flexible resource allocation in visual short-term memory. *Attention, Perception, & Psychophysics*.

Dube, B. and Golomb, J. D. (2021). Perceptual distraction causes visual memory encoding intrusions. *Psychonomic Bulletin & Review*, <https://doi.org/10.3758/s13423-021-01937-6>.

Dube, B. and Golomb, J. D. (2020). Revisiting mixture models of memory. *Nature Human Behavior*, Invited News & Views commentary, 4, 1098-1099.

Salahub, C., Lockhart, H. A., **Dube, B.**, Al-Aidroos, N., & Emrich, S. M. (2019). Electrophysiological correlates of the flexible allocation of visual working memory resources. *Scientific Reports*, 9 (1), 1-11.

Triglav, J., Howe, E., Cheema, J., **Dube, B.**, Fenske, M. J., Strzalkowski, N., & Bent, L. (2019). Physiological and cognitive measures during prolonged sitting: Comparisons between a standard and multi-axial office chair. *Journal of Applied Ergonomics*, 78, 176-183.

Dube, B., & Al-Aidroos, N. (2019). Distinct prioritization of visual working memory representations for search and for recall. *Attention, Perception, & Psychophysics*, 81(5), 1253-1261.

Dube, B., *Lumsden, A., & Al-Aidroos, N. (2018). Probabilistic retro-cues do not determine state in visual working memory. *Psychonomic Bulletin & Review*, 26(2), 641-646.

Dube, B., Emrich, S.M., & Al-Aidroos, N. (2017). More than a filter: Feature-based attention regulates the distribution of visual working memory resources. *Journal of Experimental Psychology: Human Perception and Performance*, 43(10), 1843-1854.

Dube, B., *Basciano, A., Emrich, S.M., & Al-Aidroos, N. (2016). Visual working memory simultaneously guides facilitation and inhibition during visual search. *Attention, Perception, & Psychophysics*, 78(5), 1232-1244.

Hodson, G., **Dube, B.**, & Choma, B. (2014). Can (elaborated) imagined contact interventions reduce prejudice among those higher in intergroup disgust sensitivity (ITG-DS)? *Journal of Applied Social Psychology*, 45(3), 123-131.

manuscripts in preparation (*denotes student contributor)

Dube, B., Bao, J., & Golomb, J. D. (*in prep*). Saccades disrupt attentional filtering for visual working memory.

Dube, B., Dodwell, A., Joubbran, S., & Al-Aidroos, N. (*in prep*). No volitional control over distractor interference in visual working memory.

Dube, B., Lockhart, H. A., Emrich, S. E., & Al-Aidroos, N. (*in prep*). No flexible re-allocation of visual working memory resources following a retro-cue.

Dube, B., Pidaparathi, L., & Golomb, J.D. (*in prep*). Distraction disrupts attentional filtering: Neural evidence for the Filter Disruption Theory.

conference presentations (*denotes student contributor)

talks

Dube, B. & Golomb, J. D. (2021, June). *Dynamic distraction disrupts control over attentional filtering: Neural and behavioural evidence for the Filter Disruption Theory*. Talk presented at the Virtual Working Memory Symposium. Presented virtually due to COVID-19.

Joubbran, S., **Dube, B.**, Lockhart, H., Emrich, S. M., Al-Aidroos, N. (2021, June). *How is occipito-parietal connectivity altered to protect visual working memory from distraction?* Talk presented at the Virtual Working Memory Symposium. Presented virtually due to COVID-19.

Plater, L., **Dube, B.**, Giammarco, M., Donaldson, K., Miller, K., & Al-Aidroos, N. (2021, June). *Attentional control settings and visual working memory*. Talk presented at the Virtual Working Memory Symposium. Presented virtually due to COVID-19.

Dube, B. and Golomb, J. D. (2020, June). *Perceptual distraction disrupts control over visual memory encoding*. Talk presented at the Virtual Working Memory Symposium. Presented virtually due to COVID-19.

Dube, B., *Rak, S., & Al-Aidroos, N. (2019, June). *Limits to the re-distribution of resources in visual working memory*. Talk presented at the Annual Meeting of the Canadian Society for Brain, Behaviour, and Cognitive Science, Waterloo, Ontario, Canada.

Salahub, C., Lockhart, H., **Dube, B.**, Al-Aidroos, N., & Emrich, S. M. (2019, May). *Beyond Load: Neural markers of visual working memory encoding and maintenance track attentional priority*. Talk presented at the 19th Annual Meeting of the Vision Sciences Society, St. Pete Beach, Florida.

Dube, B., *Rak, S., & Al-Aidroos, N. (2018, July). *No flexible re-distribution of visual working memory resources after encoding*. Talk presented at the Annual Meeting of the Canadian Society for Brain, Behaviour, and Cognitive Science, St. John's, Newfoundland, Canada.

Dube, B., Emrich, S.M., & Al-Aidroos, N. (2017, May). *More than a filter: Feature-based attention regulates the distribution of visual working memory resources*. Talk presented at the 17th Annual Meeting of the Vision Sciences Society, St. Pete Beach, Florida.

Hodson, G., **Dube, B.**, & Choma, C. (2014, June). *Can (elaborated) imagined contact reduce prejudice among those higher in intergroup disgust sensitivity (ITG-DS)?* Talk presented at the European Association of Social Psychology (EASP) annual conference, Netherlands.

posters

Dube, B., & Golomb, J. D. (2021, May). *Distraction disrupts attentional filtering for visual working memory: Neural and behavioural evidence for the Filter Disruption Theory.* Poster presented at the 21st Annual Meeting of the Vision Sciences Society. Presented virtually due to COVID-19.

*Bao, J., **Dube, B.**, & Golomb, J. D. (2021, May). *Saccades disrupt attentional filtering for visual working memory.* Poster presented at the 21st Annual Meeting of the Vision Sciences Society. Presented virtually due to COVID-19.

Dube, B., & Golomb, J. D. (2021, May). *Neural processing of task-irrelevant features following visual distraction.* Poster presented at the 28th Annual Meeting of the Cognitive Neuroscience Society. Presented virtually due to COVID-19.

Dube, B., Leber, A. B., & Golomb, J. D. (2020, May). *Perceptual distraction disrupts control over visual memory encoding.* Poster presented at the 20th Annual Meeting of the Vision Sciences Society. Presented virtually due to COVID-19.

Plater, L., **Dube, B.**, Giammarco, M., *Donaldson, K., *Miller, K., & Al-Aidroos, N. (2020, May). *Goals matter: Only searched-for visual working memory representations form an attentional control set.* Poster presented at the 20th Annual Meeting of the Vision Sciences Society. Presented virtually due to COVID-19.

Dube, B., & Golomb, J. D. (2020, May). *Perceptual distraction disrupts the filter that gates visual working memory access.* Poster presented at the 27th Annual Meeting of the Cognitive Neuroscience Society. Presented virtually due to COVID-19.

Dube, B., *Dodwell, A., & Al-Aidroos, N. (2019, November). *No volitional control over distractor interference in visual working memory.* Poster presented at the 19th Annual Meeting of the conference for Object Perception, Visual Attention, and Visual Memory, Montreal, CAN.

Dube, B., *Rak, S., *Iannucci, L., & Al-Aidroos, N. (2019, May). *Too little too late: No flexible control of memory by retro-cues.* Poster accepted for presentation at the 19th Annual Meeting of the Vision Sciences Society, St. Pete Beach, Florida.

Dube, B., & Al-Aidroos, N. (2018, November). *Increasing item precision in visual working memory is insufficient to grant template status.* Poster presented at the 18th Annual Meeting of the conference for Object Perception, Visual Attention, and Visual Memory, New Orleans, LA.

Dube, B., *Lumsden, A., & Al-Aidroos, N. (2018, May). *Probabilistic retro-cues do not determine representational state in visual working memory.* Poster presented at the 18th Annual Meeting of the Vision Sciences Society, St. Pete Beach, Florida.

Salahub, C., **Dube, B.**, Al-Aidroos, N., & Emrich, S. M. (2018, May). *ERP measures of target and distractor processing are affected by attentional prioritization.* Poster presented at the 18th Annual Meeting of the Vision Sciences Society, St. Pete Beach, Florida.

*Gillies, G., *Goodman, H., **Dube, B.**, & Al-Aidroos, N. (2018, May). *The distribution of resources in visual working memory is not accomplished via a simple filter*. Poster presented at the 38th Annual Meeting of the Southern Ontario Neuroscience Association, Guelph, Canada.

Dube, B., *Pike, V. A. A., & Fenske, M. J. (2018, February). *When fidgeting is functional: Tactile fidgeting enhances cognitive performance and subjective experience during lecture*. Poster presented at the 47th Annual Lower Ontario Visionary Establishment Conference, Niagara Falls, Canada.

Dube, B., de Vries, I. E. J., van Driel, J., & Olivers, C. N. L. (2017, December). *EEG Dynamics of Negative Templates for Visual Search*. Poster presented at De Nederlandse Vereniging voor Psychonomie, Egmond aan Zee, Netherlands.

*Pike, V., **Dube, B.**, & Fenske, M.J. (2017, February). *The Link Between Boredom and Fidgeting: Examining Subjective Experience*. Poster presented at the 46th Annual Lake Ontario Visionary Establishment Conference, Niagara Falls, Canada.

Dube, B., *Chen, A., Eastwood, J.D., & Fenske, M.J. (2016, November). *Individual differences in fidgeting and the link between state boredom and spontaneous movement during lectures*. Poster presented at the Psychonomic Society's 57th Annual Meeting, Boston, Massachusetts.

Dube, B., *Miller, K., Giammarco, M., & Al-Aidroos, N. (2016, May). *Active visual working memory representations are insufficient to control spatial attentional capture*. Poster presented at the 16th Annual Meeting of the Vision Sciences Society, St. Pete Beach, Florida.

Giammarco, M., *Hryciw, J., **Dube, B.**, & Al-Aidroos, N. (2016, May). *Limits on the contribution of priming to attentional control settings: Evidence from long-term memory control sets*. Poster presented at the 16th Annual Meeting of the Vision Sciences Society, St. Pete Beach, Florida.

*Chen, A., **Dube, B.**, & Fenske, M. J. (2016, February). *Establishing a potential link between boredom and fidgeting*. Poster presented at the 45th Annual Lake Ontario Visionary Establishment Conference, Niagara Falls, Canada.

Dube, B., & Al-Aidroos, N. (2015, November). *Monetary Reward Accelerates Conscious Visual Perception*. Poster presented at the Psychonomic Society's 56th Annual Meeting, Chicago, Illinois.

Dube, B., Emrich, S.M., & Al-Aidroos, N. (2015, May). *Feature-based attention separately influences visual working memory resolution and encoding probability*. Poster presented at the 15th Annual Meeting of the Vision Sciences Society, St. Pete Beach, Florida.

Arnell, K., & **Dube, B.** (2015, May). *Extraversion predicts superior face-specific recognition ability, but through experience, not positive affect*. Poster presented at the 15th Annual Meeting of the Vision Sciences Society, St. Pete Beach, Florida.

Dube, B., *Basciano, A., Emrich, S.M., & Al-Aidroos, N. (2014, November). *Concurrent inhibition and facilitation by the contents of visual working memory during visual search*. Poster presented at the 55th Annual Meeting of the Psychonomic Society, Long Beach, California.

Dube, B., & Al-Aidroos, N. (2014, July). *Monetary rewards speed conscious visual perception*. Poster presented at the 24th Annual Meeting of the Canadian Society for Brain, Behaviour, and Cognitive Science, Toronto, Ontario.

Dube, B., Arnell, K., & Mondloch, C. (2014, May). *Does attention to low spatial frequencies enhance face recognition? An individual differences approach.* Poster presented at the 14th Annual Meeting of the Vision Science Society, St Pete Beach, Florida.

Dube, B. & Al-Aidroos, N. (2014, April). *The application of attentional goals across the stages of visual processing.* Poster presented at the University of Guelph Annual Neuroscience Day, Guelph, ON.

Dube, B. & Al-Aidroos, N. (2014, February). *Goal-directed processing in visual working memory.* Poster presented at the University of Guelph PGSA Research Roundtable, Guelph, ON.

service

service to profession

- **Conference Organizer:**
Annual Meeting for Object Perception, Attention, and Memory (2020-current)
- **Adhoc Reviewer:**
Attention, Perception, & Psychophysics
Journal of Experimental Psychology: Human Perception and Performance
Attention, Perception, & Psychophysics
Journal of Experimental Psychology: Human Perception and Performance
Memory and Cognition
Scientific Reports
Quarterly Journal of Experimental Psychology
Scientific Reports
Visual Cognition

department and university service

- Psychology Participant Pool Administrator (2014-2019)
- Psychology + Neuroscience hiring committee voting member (2016)

teaching and dissemination of research

student supervision

OSU undergraduate research apprentice program

Jackie Bao (2019-current) Do saccades disrupt attentional filtering?

OSU undergraduate research assistants

Sigrid Zhu (2019-current) Do distractors distort visual working memory representations?
Ian Mboya (2019) Do distractors distort visual working memory representations?

psyc*4870/80, honours thesis

Greer Gillies (2017-2018) Limits to the flexible distribution of resources within visual working memory
Corey Loo (2016-2017) Testing the relational account of memory-based capture
Victoria Pike (2016-2017) Examining the functional link between boredom and fidgeting
Angela Chen (2015-2016) Establishing a potential link between boredom and fidgeting
Jacob Lindsay-Kolari (2015) The chronometry of working memory precision

psyc*4510, current issues in psychology

Alison Dodwell (2018)	How do we protect the contents of visual working memory from distraction?
Alanna Lumsden (2017)	Assessing the effects of retro-cues on memory-driven capture
Krista Miller (2016)	Visual working memory and attentional control settings are distinct
Corey Loo (2016)	What constitutes “similarity” in visual working memory-based capture?

psyc*4500, current theoretical issues in psychology

Alanna Lumsden (2016)	Is memory driven capture determined by memory resolution?
Stephanie Rak (2017)	Assessing the effects of retro-cues on memory resolution
Corey Loo (2015)	The attentional consequences of accessory memory representations

psyc*3240, independent research

Hannah Goodman (2018)	Are probabilistic retro-cues sufficient to characterize a search template?
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invited talks

Fall 2019	The Ohio State University Department of Psychology Colloquium Series
Spring 2019	The Ohio State University Vision & Cognitive Neuroscience Lab
Fall 2017	Vrije Universiteit Amsterdam Department of Psychology Colloquium Series

guest lecturer

Winter 2017	Cognitive Neuroscience (4 th yr), University of Guelph
Fall 2016	Cognitive Neuroscience (4 th yr), University of Guelph
Fall 2015	Principles of Learning (2 nd yr), University of Guelph
Fall 2015	Cognitive Neuroscience (4 th yr), University of Guelph
Winter 2015	Cognitive Neuroscience (4 th yr), University of Guelph

graduate teaching assistant

Fall 2015	Seminar in Motivation and Emotion, University of Guelph
Winter 2015	Cognitive Processes, University of Guelph
Fall 2014	Quantification in Psychology, University of Guelph
Summer 2014	Behavioural Neuroscience, University of Guelph
Winter 2014	Principles of Sensation and Perception, University of Guelph
Fall 2013	Principles of Sensation and Perception, University of Guelph

undergraduate tutor

2011 - 2013	Introduction to Psychology, Brock University Statistics and Research Design in the Behavioural Sciences, Brock University Brain and Behaviour I, Brock University
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professional affiliations and activities

research positions

- 2013 - 2019 **Undergraduate Mentor, Visual Cognitive Neuroscience Lab (Dr. Naseem Al-Aidroos) & Cognitive-Affective Neuroscience Lab (Dr. Mark Fenske), University of Guelph**
- Manage research projects across multiple labs
 - Supervise multiple honours thesis students
- 2011 – 2014 **Research Assistant, Attention Lab (Dr. Karen Arnell), Brock University**
- Conceptualize/design research projects, create stimuli and experimental tasks, data collection and analysis, writing
- 2012 – 2013 **Research Assistant, Well-Being Research Lab (Dr. Michael Busseri), Brock University**
- Participant recruitment, data collection/coding/analysis
- 2012 – 2013 **Research Assistant, Department of Organizational Behaviour, Human Resources, Entrepreneurship, and Ethics (Dr. Tunde Ogunfowora), Brock University**
- Participant recruitment, create marketing materials and informational presentations, hire and schedule confederates, schedule/conduct weekly research sessions run in groups of 10-15, data collection/entry.

professional memberships

- The Canadian Society for Brain, Behaviour, and Cognitive Science
- The Cognitive Neuroscience Society
- The Psychonomic Society
- The Vision Sciences Society

professional skills

- Behavioural data collection and analysis
- EEG data collection and analysis
- fMRI data collection and basic analyses
- PsychoPy (Python), Psychtoolbox (Matlab), E-Prime, & OpenSesame experimental software
- SPSS, JASP, R, BrainVoyager, & Matlab analysis software
- Adobe Illustrator & Inkscape graphics software
- Visual Basic & Microsoft Excel