

# Monica S. Castelhana

## Curriculum Vitae

### General Information

*Mailing Address:*  
Department of Psychology  
Queen's University  
Kingston, ON K7L 3N6  
Canada

*Phone:* 613-533-3266  
*Fax:* 613-533-2499  
*E-Mail:* monica.castelhana@queensu.ca  
*Web:* <http://qvcl.ca>

### Education

September 2002 – August 2005  
Ph.D. Psychology, *Specialization in Cognitive Science*, Michigan State University

September 2000 – August 2002

M.A. Psychology, Michigan State University  
B.Sc. Psychology, Minor

: *Physiology*, University of Toronto

### Employment

July 2020 – present

- 2018-2021 Discovery Accelerator Grant, Natural Sciences and Engineering Council of Canada
- 2015-2020 Early Researcher Award, Ontario Ministry of Research & Innovation
- 2014-2016 Senate Advisory Research Committee Award, Queen's University
- 2013-2018 Discovery Grant, Natural Sciences and Engineering Council of Canada
- 2010-2015 Infrastructure Operating Fund, Canada Foundation for Innovation
- 2009 World University Network Grant, Southampton University, UK (Co-PI)
- 2009 Office of Research Travel Award, Queen's University
- 2009-2012 Leader's Opportunity Fund, Canada Foundation for Innovation
- 2009-2012 Research Infrastructure program, Ontario Ministry of Research & Innovation
- 2008-2009 Advisory Research Committee Grant, Queen's University
- 2008 Office of Research Travel Grant, Queen's University
- 2008-2013 Discovery Grant, Natural Sciences and Engineering Council of Canada
- 2007 Research Initiation Grant, Queen's University
- 2006 Visual Neuroscience European Summer School Fellowship
- 2002-2005 Michigan State University Graduate School Fellowship given on behalf of the NSF Integrated Graduate Education and Research Training Program (IGERT)

**Publications & Manuscripts**

(h-index: 30; citations 7338, *Google Scholar, Feb 28, 2024*)

(Students in Bold)

- 46. **Krzy , K., Man, L.L.-Y., Wammes, J.g2w [(n)-19.1 -0 0 9.1 54.61 1 9.g2w [ -0.007 Tw 1.26 Tw 1.280IAs( G)-8(r)-0.31UT3 T01 2h 36(1 -0)-1(s)-8(C2/ 7**



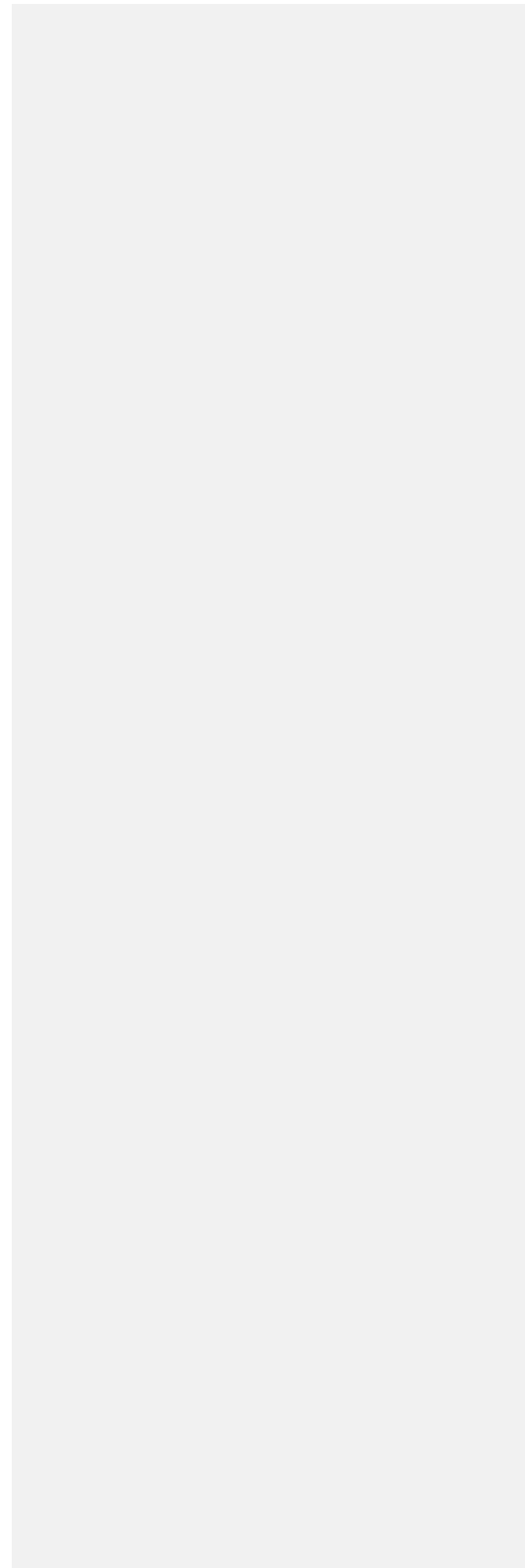




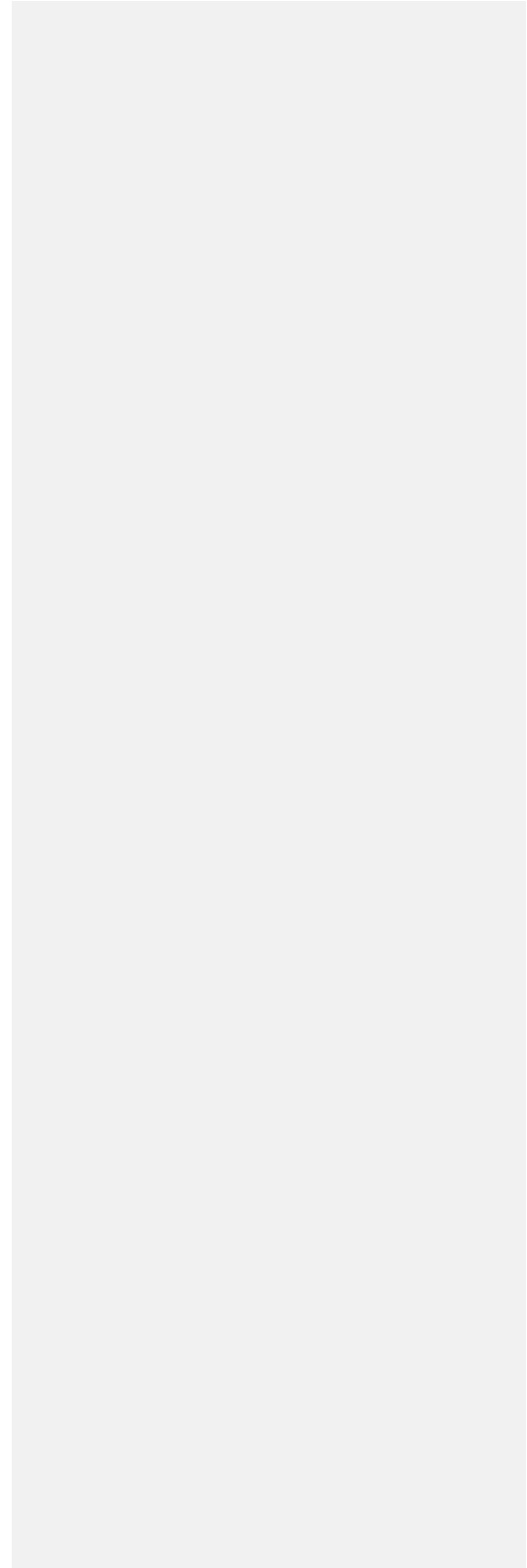
25. **Moskowitz, J. B.**, Castelhana, M. S., Gallivan, J. P., & Flanagan, J. R. (2021). Gaze behaviour when visually searching for targets to be reached toward is influenced by movement-

-

Monica S. Castelhana,



across depth on visual search in scenes. *PsyArXiv*. <https://doi.org/10.31234/osf.io/w6j4a>





- and can't tell us about processing", Northumbria University, Newcastle, UK.
- 2022 **Invited Speaker**, "Attention Depends on Context: What the eyes can and can't tell us about processing", Experimental Psychology Group Meeting, University of Leicester, Leicester UK.
- 2022 **Invited Speaker**, "Analysis of Eye movement in Dynamic Scenes", Workshop on Eye Movement Data Collection and Analysis, University of Central Lancashire, Preston, UK.
- 2022 **Invited Speaker**, "Attention Depends on Context: What the eyes can and can't tell us about processing", Experimental Psychology Group Meeting, University of Leicester, Leicester UK.
- 2022 **Invited Speaker**, "Attention Depends on Context: What the eyes can and can't tell us about processing", School of Psychology Weekly Seminar, University of Aberdeen, Aberdeen, Scotland. **Invited Speaker**, "

University of U Seminar, Univ

- world scene processing", Harvard University, Cambridge, MA, USA
- 2018 **Invited Keynote Speaker**, Scandinavian Workshop On Applied Eye Tracking :  
"Exploring scene context and its effect on eye movement guidance",  
Copenhagen, Denmark
- 2018 **Invited Speaker**, Visual Search and Selective Attention (VSSA IV) Symposium:  
"The Surface Guidance Framework: How Scene Surface can inform Search  
Strategies", Ammersee, Munich, Germany
- 2018 **Invited Keynote Speaker**, 7th Annual China International Conference on Eye  
Movements, Nanjing, China
- 2018 **Invited Speaker**, "The Scene-Object Link: Investigating how scene context does  
and does not influence processing". Ebbinghaus Empire Series 2017-2018,  
University of Toronto, Canada
- 2017 **Invited Speaker**, Gordon Research Conference: "Unpacking Scene Context  
Effects: Using the Surface Guidance Framework to Explore Attentional  
Mechanisms, Lewiston, ME, USA
- 2017 **Invited Speaker**, Matariki Spring School, Tübingen University, Tübingen,  
Germany
- 2017 **Invited Speaker**, Symposium: "A scene is more than the sum of its objects: The  
mechanisms of object-object and object-scene integration, St. Petersburg, FL,  
USA
- 2016 **Invited Keynote Speaker**, 6th Annual China International Conference on Eye  
Movements, Changchun, China
- 2016 **Invited Instructor**, Academic Writing Workshop, Institute of Psychology, Chinese  
Academy of Sciences, Beijing, China
- 2016 **Invited Speaker**, Institute of Psychology, Chinese Academy of Sciences, Beijing,  
China
- 2016 **Invited Speaker**, Department of Psychology, University of Toronto, Mississauga
- 2014 **Invited Speaker**, Centre for Visual Cognition, University of Southampton, UK
- 2010 **Invited Symposium Organizer**, Association for Psychological Science, Boston
- 2010 **Invited Speaker**, Canadian Network for Action and Perception Meeting, Kingston
- 2010 **Invited Speaker**, Ebbinghaus Empire Meeting, University of Toronto, Toronto

**Conference Presentations** (Trainees in Bold)

77. Lum Smith, H., **M Li**, L.S., Williams, C.C., &

76. O'Connell, M., Williams, C.C., & Castelhana, M.S. (2023). Investigating the Impact of Spatial Certainty and Target Features on Visual Search. Poster presented at the Psychonomic Society Annual Meeting, San Francisco, USA.
75. M. Yan, T., & Castelhana, M.S. (2023). Jumping the Hoops: Depth Limitation to the Benefit of Object-based Attention in Virtual Reality. Poster presented at the Psychonomic Society Annual Meeting, San Francisco, USA.
74. Benson, V., Castelhana, M.S., Liversedge, S.P., & Milledge, S. (2023). How Do Adults with Autism Interpret Dynamic Social Scenes? An Eye Movement Study. Poster presented at the Psychonomic Society Annual Meeting, San Francisco, USA.
73. Castelhana, M.S. (2023). Scene Context Dynamically Influences Attention. Paper presented at the Psychonomic Society Annual Meeting, San Francisco, USA.
72. M. Mistry, M., Yan, T.Q. & Castelhana, M.S. (2023). Predicting the Allocation of Attention: Using contextual guidance of eye movements to examine the distribution of attention. In Proceedings of the 2023 Symposium on Eye Tracking Research and Applications (ETRA '23). Association for Computing Machinery, New York, NY, USA
71. Castelhana, M.S. (2023). Deriving Cognitive Strategies from Fixations during Visual Search in Scenes. In Proceedings of the 2023 Symposium on Eye Tracking Research and Applications (ETRA '23). Association for Computing Machinery, New York, NY, USA
70. O'Connell, M., Williams, C.C., & Castelhana, M.S. (2023). Expectations Versus Reality: The Effect of Semantic Knowledge on Statistical Learning. Paper presented at 23<sup>rd</sup> Annual Meeting of the Vision Sciences Society, St. Petersburg, Florida.
69. M. & Castelhana, M.S. (2023). Predictive effects of spatial updating. Poster presented at 23<sup>rd</sup> Annual Meeting of the Vision Sciences Society, St. Petersburg, Florida.
68. M. & Castelhana, M.S. (2023). Predicting the Allocation of Attention: Using contextual guidance of eye movements to examine the distribution of attention. Poster presented at the Lake Ontario Visionary Establishment (LOVE) Annual Meeting, Niagara Falls, Canada.
67. Li, L.S., Lum Smith, H., M. Williams, C.C., & Castelhana, M.S. (2023). Expectations Versus Reality: The Effect of Semantic Knowledge on Statistical Learning. Poster presented at the Lake Ontario Visionary Establishment (LOVE) Annual Meeting, Niagara Falls, Canada.

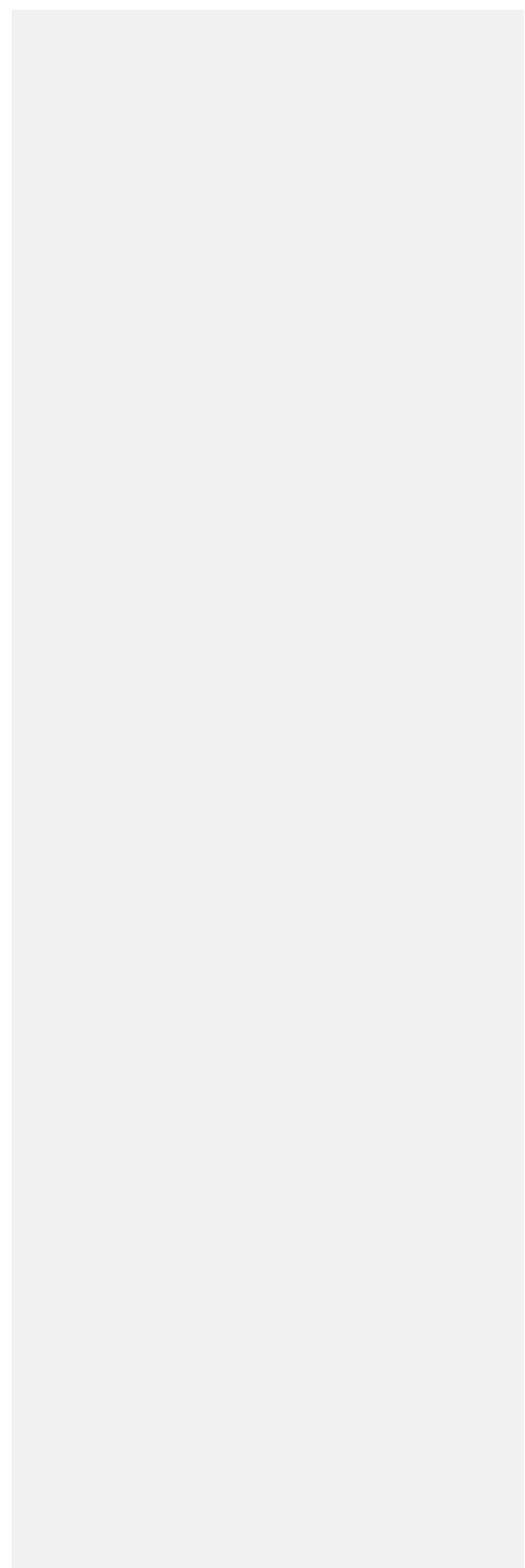




Monica S. Castelhana, Curriculum Vitae

14

39. Tian, L., Pereira, E. J., & Castelhana, M.S. (February, 2015). Is a picture worth a thousand





objects and scene identity in contextual cueing in scenes. Paper presented at the Experimental Psychology Society Birmingham Meeting, Birmingham, UK.

13. Castelhana, M.S., & Henderson, J.M. (May, 2005). The Influence of Color on the Perception of Scene Gist. Poster presented at Vision Sciences Society Annual Meeting, Sarasota.
12. Castelhana, M.S., & Henderson, J.M. (November, 2004). The Influence of Color on Perception of Scene Gist. Paper presented at the Annual Workshop on Object Perception, Attention, and Memory, Minneapolis.
11. Castelhana, M.S., Mack, M.L., & Henderson, J.M. (November, 2004). Task Influences on Eye Movement Control in Scenes. Poster presented at Psychonomic Society Annual Meeting, Minneapolis.
10. Brockmole, J.R., Mack, M.L., Castelhana, M.S., Oliva, A., & Henderson, J.M. (November, 2004). Stimulus-Driven Influences on Fixation Duration during Real-World Scene Viewing. Poster presented at Psychonomic Society Annual Meeting, Minneapolis.
9. Henderson, J. M., Castelhana, M. S., & Wieth, M. (May, 2004). Eye movement control during active scene viewing. Paper presented at the 6th European Workshop on Language Comprehension, Oleron, France.
8. Torralba, A., Oliva, A., Castelhana, M, and Henderson J.M. (May, 2004). Saliency, objects and scenes: global scene factors in attention and object detection. Poster presented at Vision Sciences Society Annual Meeting, Sarasota.
7. Mack, M.L., Castelhana, M.S., Henderson, J.M., & Oliva, A. (November, 2003). What the Visual System "Sees": The relationship between fixation positions and image properties during a search task in real-world scenes. Poster presented at the Annual Workshop on Object Perception, Attention, and Memory, Vancouver.
6. Castelhana, M.S. & Henderson, J.M. (May, 2003). Flashing Scenes and Moving Windows: An effect of Initial Scene Gist on Eye Movements. Paper presented at Vision Sciences Society Meeting, Sarasota.
5. Wieth, M.B., Castelhana, M.S. & Henderson, J.M. (May, 2003). I See What You See: Gaze Perception during Scene Viewing. Poster presented at Vision Sciences Society Meeting, Sarasota.
4. Oliva, A., Torralba, A., Castelhana, M.S. & Henderson, J.M. (May, 2003). Top-down control of visual attention in real world scenes. Paper presented at Vision Sciences Society Meeting, Sarasota.
3. Castelhana, M.S. & Henderson, J.M. (November, 2002). Early Extraction of Scene Gist





Louisa Man	09/2016-10/2023	Ph.D.	Psychologist, CAMH, Toronto
Wen Wai (Kev) Zhou	09/2018-08/2020	M.Sc.	PhD Candidate, York
Karolina Krzy	09/2018-present	Ph.D.	
Alison Dodwell	09/2019-08/2021	M.Sc.	Occupational Therapist, Toronto
Laura Sikun Li	09/2021-present	Ph.D.	
Hannah Lum Smith	09/2022-present	M.Sc.	

*Visiting Graduate Students*

Luise Prüßner	07/2015-10/2015	Heidelberg University	Germany
Ryo Tachibana	10/2016-01/2017	Tohoku University,	Japan
Zhe Huang	09/2016-12/2016	University of Munich,	Germany
Phillipa Howard	06/2016-08/2016	University of Southampton,	UK

***Undergraduate Students***

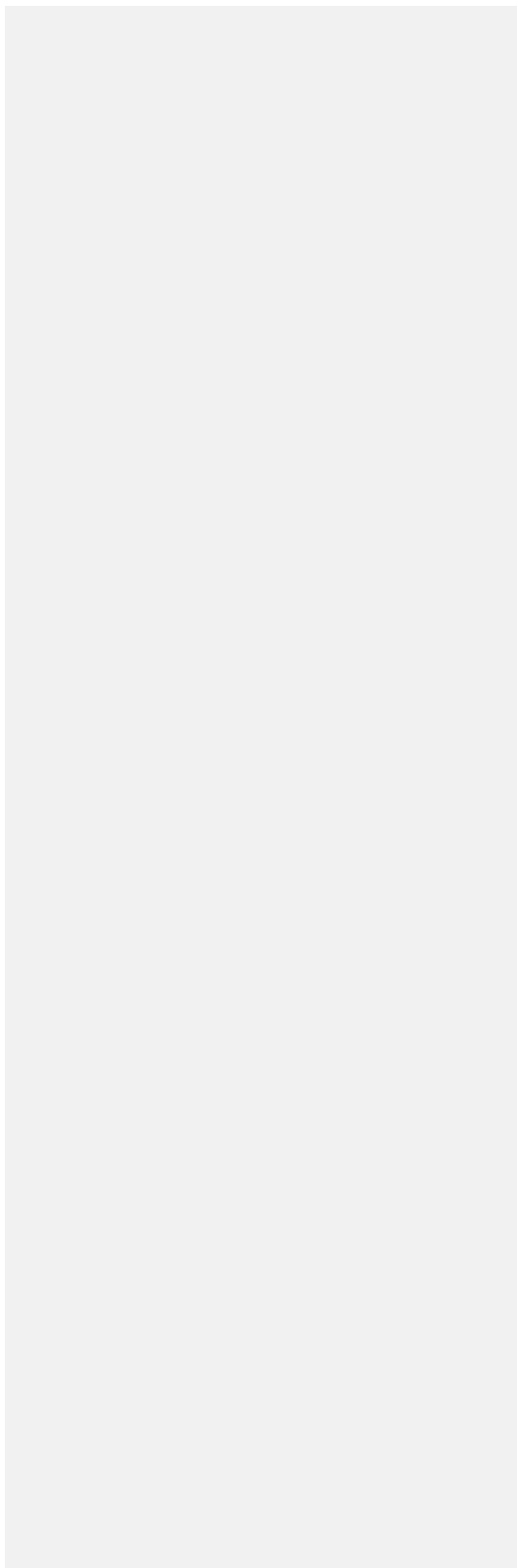
<u>Name</u>	<u>Dates</u>	
Jennifer Brunet	Sep-11	Mar-12
Lesley Campbell	Mar-12	Apr-13
Kyle Kogger	May-12	Jul-12



Monica S. Castelhana, Curriculum Vitae

20

Angelica Saragosa	Oct-22	present
Emily Boland	Oct-22	present
Emily Robbie	Oct-22	Feb-23
Mridula Srikanth	Oct	



Journal of Experimental Psychology: Human Perception and Performance 2019-2023  
Cognitive Research: Principles and Implications, 2017-2021; 2023-present  
Visual Cognition, 2009-2016  
Attention, Perception & Psychophysics, 2011-2014

**Ad Hoc Reviewer**

*Journal Articles:*

Acta Psychologica;	Frontiers in Psychology:
Attention, Perception &	Perception Science;
Psychophysics;	Human Brain Mapping; Journal
Behavior Research Methods;	of Experimental Psychology;
Brain Topography;	Fp Psy: iopelgy;
British Journal of Psychology;	
Canadian Journal of	
Experimental Psychology;	
Cognition;	
Cognition & Emotion;	
Cognitive Processing;	
Cognitive Psychology;	
Cognitive Science;	
eLife;	
European Journal of Cognitive	
Psychology;	
Experimental Brain Research;	
Experimental Psychology;	

- 2009            Program Committee, European Conference on Eye Movements (ECEM), Southampton, UK
- 2009-2011    Psych 100 Advisory Group (Chair: 2010-2011), Department of Psychology, Queen's University
- 2005-2007    Organizer of the Object Perception, Attention, and Memory (OPAM) Workshop

**Professional Affiliations**

- Psychonomic Society (Fellow since 2013)
- Association of Psychological Science
- American Psychological Association
- Association for Computing Machinery
- Canadian Society for Brain, Behaviour and Cognitive Science
- Spark Society
- Women in Cognitive Science
- Vision Sciences Society