Curriculum Vitae

Patrick CAVANAGH

December 2022

Personal Data

Date of Birth:	June 10, 1947
Place of Birth:	Oakville, Ontario, Canada
Citizenship:	Canadian

Appointments: Senior Research Fellow and Adjunct Professor
Department of Psychology
Glendon College
Toronto, ON M4N 3M6
Canada

Emeritus Professor
Université de Paris
45 rue des Saints-Pères
75006 Paris
France

Emeritus Professor
Vision Sciences Laboratory
Harvard University
Cambridge, MA 02138
USA

Education

1963 -1968	McGill University	B. Eng.	in Electrical Engineering
1968 -1970	Carnegie-Mellon University	M.Sc.	in Psychology
1970 -1972	Carnegie-Mellon University	Ph.D.	in Psychology

Positions Held

2017 - present	Senior Research Fellow	Glendon College, York University
2015 - present	Emeritus Professor	Université Paris Descartes
2013 - present	Emeritus Professor	Harvard University
2011 - 2021	Research Professor	Dartmouth College
2008 - 2013	Research Professor	Harvard University
2006 - 2015	Professor	Université Paris Descartes
1989 - 2008	Professor	Harvard University
1984 - 1989	Professor	Université de Montréal
1979 - 1984	Associate Professor	Université de Montréal
1974 - 1979	NSERC Research Fellow	Université de Montréal
1972 - 1974	Research Fellow	Université de Montréal

Starting in 1972 at the Université de Montréal, I worked on memory and vision research and created a Laboratory of Perception. In 1990, with Dr. Ken Nakayama, I founded and co-directed the Vision Sciences Laboratory at Harvard University. In 2006, I accepted a position at the University Paris Descartes and created the Centre of Attention & Vision (CAV) to focus on attention research for which we won a Chaire d'Excellence and an ERC Advanced Grant. I am currently a Senior Research Fellow at Glendon College of York University.

Supervision of Students

Engineering	1 M. Sc. awarded
Psychology	13 M. Sc. Awarded
	30 Ph. D. awarded
Postdoctoral	39 Postdoctoral fellows

I have trained 30 doctoral students and 39 postdoctoral students (3 currently). They have gone on become professors at research universities around the world (Berkeley, Brown, Yale, Vanderbilt, Dartmouth, Tokyo, Sydney, Aberdeen, Utrecht, UCSD). My students have won the Young Investigators Award from the Vision Sciences Society (David Whitney, 2008; George Alvarez, 2010) and the Young Investigator Award from the Society for Experimental Psychologists (George Alvarez, 2012) and the APA Early Career Award (George Alvarez, 2014). In Paris, five members of our Centre received awards: Floris van Vugt, a masters student received a Fulbright scholarship to pursue a PhD at UCLA, Dr. Martin Rolfs received a Marie Curie postdoctoral fellowship to continue attention research at NYU with Marisa Carrasco, Dr. Tomas Knapen won the Dutch Veni Award to continue fMRI studies of remapping in Amsterdam with Victor Lamme, and Dr. John Greenwood received a Marie-Curie Postdoctoral fellowship to work here in our lab. At Harvard, our NIH

postdoc Dr. Viola Störmer won a Marie-Curie Fellowship to continue her work at Harvard followed by a year in Paris.

Courses taught (selected)

Glendon College, Perception GL/Psyc3690, 2021
Université de Paris, Cog Masters P3 Attention, 2008-2014
Université de Paris, Cog Masters Atelier AT1, 2008-2012
Université de Paris, Psychologie Licence 3 TER, 2008
Harvard University, Psych 1, 1997-2002
Harvard University, Science Core B44 Vision and Brain, 1994-2006
Harvard University, Freshman Seminar, Art and the Brain, 2003
Université de Montréal, Psy1000, Méthodes de recherche, 1981-1987

University Level Committees

Organizing Committee, CVR 2019, York University
Conseil de l'Ecole Doctorale 216 CH3, Université Paris Descartes, 2011-2014
Conseil Pédagogique, Université Paris Descartes, 2009-2015
Comité de Sélection, Université Paris Descartes, 2009
Committee on the Use of Human Subjects, Harvard, 2002-2007
Science Core Subcommittee, Harvard, 1992-97
Standing Committee on Neurosciences, Harvard, 1992-97
Rhodes Scholarship Committee, UdeM, 1988-89

Membership in Professional Organizations

Association for Research in Vision and Ophthalmology, 1977-2001
Chair, Program Planning Committee, 1990-1993
Association for Psychological Science
American Physiological Society
Fellow, Psychonomic Society
Society for Neuroscience
Optical Society of America, 1985-1995
Chair Vision Technical Group, 1989-91
Vision Sciences Society

Journal Editorship

Editorial Board, *Perception and i-Perception*, 1995-present
Editorial Board, *Vison*, 2021-present
Associate Editor, *Seeing and Perceiving* (formerly *Spatial Vision)*, 1984-2012
Associate Editor, *Canadian Journal of Psychology*, 1985-1988
Board of Editors, *Journal of Vision*, 2003-2012
Consulting Editor, *Psychological Review*, 2004-2015
Editorial Board, *Vision Research*, 2004-2007
Editorial Board, *Canadian Journal of Experimental Psychology*, 2004-2014

Grant and Prize Committees

CFI Expert Committee Ophthalmology, 2022
Strategic Project and Opportunity Review Team, 2021-23, York University
Francqui Prize, Belgium, jury member for humanities award, 2013
Grawemeyer Award, USA, member psychology award committee, 2006
NIH Visual Sciences B Study Section, 1991-1995
Natural Sciences and Engineering Research Council of Canada, Psychology Grant Selection Committee, 1979-82, 1987-1989

Research Interests

My work on visual attention - its spatial and temporal resolution (*Nature*) and its tracking functions (*Science*) - has opened new directions in this active domain. We also discovered a distorted perception of position caused by movement (*Nature Neuroscience*) and presented a new theory of position perception based in the cortical and subcortical areas of attention and eye movement control (*Trends in Cognitive Science*). Our work on the interactions of attention and motion began with discovery of the paradoxical slowing of movement for chromatic stimuli (*JOSA*) and then the distinction between first order and second order motion (*Spatial Vision*).

In parallel with these advances, we uncovered a motion-based compensation of the small eye movements that occur during fixation (jitter aftereffect, *Nature*). In my research on memory, I discovered a relationship between the rate of processing and memory capacity in the short term (*Psychological Review*). We repeated this approach recently for the capacity of visual short-term memory and generated a new debate on the basic units stored in visual memory (*Psychological Science*). Following an initial interest in the perception of shadows, I have discovered that errors that go unnoticed in paintings (or Photoshop manipulations) are evidence of the subset of rules that the visual system uses to interpret images (*Nature*, The Artist as Neuroscientist), opening a new line of scientific analysis of art.

Recent Grants and direct costs awarded

2022-24	Accelerating research on consciousness (out of $4.5M total, 14 PIs including Tononi, Friston, Muckli)	Templeton	$246,503
2019-24	Predictive Position Coding	NSERC	$390,000
2017-19	Depth from shadows (with James Elder PI)	VISTA	$50,000
2016-21	Neural basis of attention {of $6M total} (collaborator with Tse, Grey, Sheinberg, Caplovitz, PIs)	NSF	$300,000
2013-17	Predictive Coding of Position	ERC	€1,988,000
2013-15	Spatial Cognition {of 1.5M€ total} (with Hamker, VanRullen, Medendorp, Burgess)	FET	€118,000
2013-15	Common Map of Locations {of 650K€ total} (with Collins, Deubel, Theeuwes)	ORA	€180,000
2013-15	The Position Sense	ANR	€150,000
2008-12	Attention Visuelle Humaine	ANR	€767,000
2007-12	Processing Streams in Early Vision	NEI	$1,000,000
2000-06	Processing Streams in Early Vision	NEI	$1,150,000
1997-00	Early scene analysis	AFOSR	$510,843
1997-00	Early scene analysis: Student support	AFOSR	$119,000
1995-00	Processing Streams in Early Vision	NEI	$718,000

1994-97	Early scene analysis	AFOSR	$473,989
1994-97	Early scene analysis: Student support	AFOSR	$164,216
1991-95	Processing Streams in Early Vision	NEI	$360,000
1990-93	Independence and Cooperativity in 3D Representation	AFOSR	$500,000

Honors

2019	York University Research Leader
2019	Fellow, Royal Society of Canada
2014	Norman Anderson Annual Distinguished Lecture, UCSD
2014	Fellow, Psychonomics Society
2013	Keynote Lecture, ASSC, San Diego
2012	Honorary Doctorate, Université de Montréal
2011	Gombrich Memorial Lecture, University of Vienna
2011	Keynote Lecture, European Conference on Eye Movements, Marseille
2009	The Rank Lecture, ECVP, Regensburg
2008	The W. S. Stiles Memorial Lecture, University College London
2007	Chaire d'Excellence, ANR, France
2005	Helmholtz Lecture, University of Utrecht.
2004	Member of the Society of Experimental Psychologists
2003	The *Perception* Lecture, ECVP, Paris.
2002	Kanizsa Lecture, University of Trieste.
2001	Killam Lecture, Dalhousie University.
1998	Attneave Lecture, University of Oregon.
1996	Hebb Lecture, McGill.
1985-89	Associate, Canadian Institute for Advanced Research

Publications

Refereed articles:	255
Invited articles:	24
Book chapters:	27
Books:	1

2022

Anstis, S., & Cavanagh, P. (2022). Keeping up with Clara Casco, an ever moving target. In: Battaglini L, Roncato S (Eds): *Festschrift in honour of Clara Casco*. Padova University Press. ISBN: 9788869383144

Takao, S., Sarado, A., Anstis, S., Watanabe, K., & Cavanagh, P. (2022). Motion-induced position shift depends on motion both before and after the test probe. *Journal of Vision*, 2(12):19. https://doi.org/10.1167/jov.22.12.19

Cavanagh, P., Anstis, S., Lisi, M., Wexler, M., Maechler, M., 't Hart, B. M., Shams-Ahmar, M., Saleki, S. (2022). Exploring the frame effect. *Journal of Vision*, **22**(12):5. doi: 10.1167/jov.22.12.5

Cavanagh, P. (2022). Errors in constructing visual experience. *Cognitive Neuropsychology*, 39:1-2, 58-59. doi: 10.1080/02643294.2022.2052716

Saleki, S. Ziman, K., Hartstein, K. C., & Tse, P. U. (2022). Endogenous attention biases transformational apparent motion based on high-level shape representations. *Journal of Vision*, **22**(12):16. doi: 10.1167/jov.22.12.16

't Hart, B. M., Henriques, D. & Cavanagh, P. (2022). Measuring the double-drift illusion and its resets with hand trajectories. *Journal of Vision*, **22**(2):16, 1-14. doi: 10.1167/jov.22.2.16

Published Abstracts

Heller, N. H., Alleyne, A., Cavanagh, P., & Tse, P. U. (2022). Seeing mixed percepts in apparent motion quartets during passive and volitional perception. *Journal of Vision* **22**(14):3987. doi: https://doi.org/10.1167/jov.22.14.3987

Maechler, M., Alleyne, A., Faustin, V., Cavanagh, P., Tse, P. (2022). Ruling out an aperture motion solution as the source of the double-drift illusion. *Journal of Vision,* **22**(14):4220. doi: https://doi.org/10.1167/jov.22.14.4220.

Saleki, S., Cordova, I., Cavanagh, P., Tse, P. U. (2022). Is the double-drift illusion special? *Journal of Vision,* **22**(14):4214. doi: https://doi.org/10.1167/jov.22.14.4214

Takao, S., Watanabe, K., Cavanagh, P. (2022). Dynamic Ebbinghaus vs the contracting-expanding square illusions: so similar and yet not the same. *Journal of Vision* **22**(14):3618. doi: https://doi.org/10.1167/jov.22.14.3618

2021

Anstis, S., & Cavanagh, P. (2021). Flashed Muller-Lyer and Poggendorff virtual illusions. *i-Perception*, **12**(3). doi: 10.1177/20416695211015699

Anstis, S., & Cavanagh, P. (2021). A line-doubling illusion. *Journal of Illusion*, **2**:7450. doi: 10.47691/joi.v2.7540

Cavanagh, P. (2021). The language of vision. *Perception*, **50**(3), 195-215. doi: 10.1177/0301006621991491

Cavanagh, P., Casati, R., & Elder, J. (2021). Scaling depth from shadow offset. *Journal of Vision*, **21**(12):15, 1-9. doi: 10.1167/jov.21.12.15

Hartstein, K. C., Saleki, S., Ziman, K., Cavanagh, P., & Tse, P. U. (2021). First- and second-order transformational apparent motion rely on common shape representations. *Vision Research*, 188, 246-250. doi: 10.1016/j.visres.2021.07.013

Heller, N. H., Patel, N., Faustin, V., Cavanagh, P., & Tse, P. U. (2021). Effects of internal and external velocity on the perceived direction of the double-drift illusion. *Journal of Vision*, **21**(8):2. doi: 10.1167/jov.21.8.2.

Maechler, M., Cavanagh, P., & Tse, P. U. (2021). Attentional tracking takes place over perceived rather than veridical positions. *Attention, Perception, & Psychophysics*, **83**(4), 1455-1462. doi: 10.3758/s13414-020-02214-9.

Maechler, M., Heller, N., Lisi, M., Cavanagh, P., & Tse, P. U. (2021). Smooth pursuit operates over perceived not physical positions of the double-drift stimulus. *Journal of Vision*, **21**(11):6. doi:https://doi.org/10.1167/jov.21.11.6.

Özkan, M., Anstis, S., 't Hart, B. M., Wexler, M., & Cavanagh, P. (2021). Paradoxical stabilization of relative position in moving frames. *Proceedings of the National Academy of Sciences*, **118**(25). doi: 10.1073/pnas.2102167118

Royo, J., Arcizet, F, Cavanagh, P, & Pouget, P. (2021). Using the blind spot to investigate trans-saccadic perception. *Vision*, **5**:39, 1-3. doi: 10.3390/ vision5030039

Saleki, S., Cavanagh, P., & Tse, P. U. (2021). A position anchor sinks the double-drift illusion. *Journal of Vision*, **21**(6):3. doi: 10.1167/jov.21.6.3

Takao, S., Watanabe, K., & Cavanagh, P. (2021). Dynamic presentation boosts the Ebbinghaus illusion but reduces the Müller-Lyer and orientation contrast illusions. *Journal of Vision*, **21**(6):4, 1-8. doi: 10.1167/jov.21.6.4

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't Hart, B. M., Anstis, S., & Cavanagh, P. (2021). Perceived position stabilization depends on the moving frame's displacement: an online study. *Journal of Vision*, **21**(9):2060. doi: 10.1167/jov.21.9.2060

Anstis, S., & Cavanagh, P. (2021). A line-doubling illusion. *Journal of Vision*, **21**(9):2059. doi: 10.1167/jov.21.9.2059

Cavanagh, P., MacLeod, D. I. A., & Anstis, S. (2021). Paradoxical frame stabilization with reverse apparent motion. *Perception*, **50**(15), 137. dot: 10.1177/03010066211059887

Cavanagh. P., & Anstis, S. (2021). Paradoxical frame stabilization for flashed but not continuous probes. *Journal of Vision*, **21**(9):2054. doi: 10.1167/jov.21.9.2054

Faustin, V., Heller, N., Patel, N., Cavanagh, P., & Tse, P. U. (2021). The weights of internal and external motion driving the double-drift illusion depend on the external speed *Journal of Vision*, **21**(9):2647. doi: 10.1167/jov.21.9.2647

Heller, N. H., Allyene, A., Cavanagh, P., & Tse, P. U. (2021). Simultaneously seeing both vertical and horizontal motion in apparent motion quartets during passive and volitional perception. *Perception*, **50**(15), 175. doi: 10.1177/03010066211059887

Heller, N. H., Cavanagh, P., Tse, P. U. (2021). Temporal integration window of the double-drift illusion: an immediate effect of the internal motion. *Journal of Vision*, **21**(9):2642. doi: 10.1167/jov.21.9.2642

Maechler, M., Cavanagh, P., & Tse, P. U. (2021). What is the source of the perceptual error in the double-drift illusion? *Perception*, **50**(15) 17. doi: 10.1177/03010066211059887

Maechler, M., Heller, N., Lisi, M., Cavanagh, P., Tse, P. U. (2021). Smooth Pursuit Stabilizes Objects in Perceptual and not Retinal Coordinates. *Journal of Vision*, **21**(9):2200. doi: 10.1167/jov.21.9.2200

Özkan, M., Tse, P. U., & Cavanagh, P. (2021). Different spatial transfer of high-level and low-level priming of pop-out with the double-drift illusion. *Journal of Vision,* **21**(9):2213. doi: 10.1167/jov.21.9.2213

Patel, N., Heller. N., Cavanagh, P., & Tse, P. U. (2021). Position shifts following motion aftereffects in non-static translating stimuli result in angled trajectories. *Journal of* **21**(9):2648. doi: 10.1167/jov.21.9.2648

Saleki, S., Cavanagh, P., Tse, P. U. (2021). The effect of a moving reference frame depends on its perceived not physical motion. *Journal of Vision,* **21**(9):2418. doi: 10.1167/jov.21.9.2418

Takao, S., Anstis, S., Watanabe, K., & Cavanagh, P. (2021). The motion-induced size illusion is driven by motion that follows the test probe. *Perception*, **50**(15), 210. doi: 10.1177/03010066211059887

Takao, S., Watanabe, K., & Cavanagh, P. (2021). Dynamic presentation boosts the Ebbinghaus illusion but eliminates the Müller-Lyer and orientation contrast illusions. *Journal of Vision*, **21**(9):2338. doi: 10.1167/jov.21.9.2338

2020

Chota, S., McLelland, D., Lavergne, L., Zimmermann, E., Cavanagh, P., & VanRullen, R. (2020). Full field masking causes reversals in perceived event order. *Frontiers in Neuroscience*, **14**(217), 1-9. doi: 10.3389/fnins.2020.00217

Desantis, A., Chan Hon Tong, A., Collins, T., Hogendoorn, H., & Cavanagh, P. (2020). Decoding the temporal dynamics of covert spatial attention using multivariate EEG analysis: contributions of raw amplitude and alpha power. *Frontiers in Human Neuroscience*, **14**, 430. doi: 10.3389/fnhum.2020.570419

Haladjian, H. H., Anstis, S., Wexler, M., Cavanagh, P. (2020). The tactile quartet: Comparing ambiguous apparent motion in tactile and visual stimuli. *Perception*, **49**(1), 61-80. doi: 10.1177/0301006619886237.

Hui, J., Wang, Y., Zhang, P. Tse, P. T., Cavanagh, P. (2020). Apparent motion is computed in perceptual coordinates. *i-Perception*, **11**(4), 1-10. doi: 10.1177/2041669520933309

Janic, A., Cavanagh, P., & Rivest, J. (2020). Effect of bilingualism on visual tracking attention and resistance to distraction. *Scientific Reports*, **10**:14263, 1-7. doi: 10.1038/s41598-020-71185-6

Lorenceau, J., & Cavanagh, P. (2020). Jumpy and jerky: when peripheral vision faces reverse-phi. *i-Perception*, **11**(5), 1-5. doi: 10.1177/2041669520939107.

Özkan, M., Tse, P. U., & Cavanagh, P. (2020). Pop-out for illusory rather than veridical trajectories with double-drift stimuli. *Attention, Perception, & Psychophysics*, **82**(6), 3065-3071. doi: 10.3758/s13414-020-02035-w.

Published Abstracts

Cavanagh, P., Wexler, M., & Anstis, S. (2020). Frame-induced position shifts. *Journal of Vision,* **20**(11):607. doi: 10.1167/jov.20.11.607.

2019

Casati, R., & Cavanagh, P. (2019). *The visual world of shadows*. Cambridge, MA: MIT Press.

Cavanagh P., & Tse, P. U. (2019). The vector combination underlying the double-drift illusion is based on motion in world coordinates: evidence from smooth pursuit. *Journal of Vision*, **19**(14):2. doi: 10.1167/19.14.2.

Coffey, K., Adamian, N., Blom, T., van Heusden, E., Cavanagh, P., & Hogendoorn, H. (2019). Expecting the unexpected: Temporal expectation increases the flash-grab effect. *Journal of Vision*, **19**(13):9, 1-14. doi: 10.1167/19.13.9

Liu, S., Yu, Q., Tse, P. U., & Cavanagh, P. (2019). Neural correlates of the conscious perception of visual location lie outside the visual cortex. *Current Biology*, **25**(19), 2535-2540. doi: 10.1016/j.cub.2019.10.033

Seizova-Cajic, T., Adamian, N., Duyck, M, & Cavanagh, P. (2019). Motion-induced scotoma. *Perception,* **48**(2):115-137. doi: 10.1177/0301006619825769.

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't Hart, B. M., Henriques, D. Y. P., & Cavanagh, P. (2019). Manual tracking of the double-drift illusion. *Journal of Vision*, **19**(10):286b. https://doi.org/10.1167/19.10.286b.

Cavanagh, P. (2019). Living briefly without blue-sensitive cones. *Journal of Vision*, **19**(8):37. https://doi.org/10.1167/19.8.37.

Hui, J., Zhang, P., He, S., Tse, P. U., & Cavanagh, P. (2019). Apparent motion of double drift target originates from physical location at short delays but from closer to perceived location at longer delays. *Journal of Vision*, **19**(10):166b. https://doi.org/10.1167/19.10.166b.

Liu, S., Tse, P. U., & Cavanagh, P. (2019). Distance not time imposes limits on accumulation of illusory position shifts in the double-drift stimulus. *Journal of Vision*, **19**(10):288. https://doi.org/10.1167/19.10.288.

Özkan, M., Tse, P. U., & Cavanagh, P. (2019). Perceived rather than physical direction of the double-drift stimulus pops out in visual search. *Journal of Vision*, **19**(10):314b. https://doi.org/10.1167/19.10.314b.

Rivest, J., Janic, A., & Cavanagh, P. (2019). Multitasking and MOT in bilinguals. *Journal of Vision*, **19**(10):281. https://doi.org/10.1167/19.10.281.

Saleki, S., Maechler, M., Cavanagh, P., & Tse, P. (2019). The magnitude of the Double-Drift illusion is lessened by a reference object with high positional certainty. *Journal of Vision*, **19**(10):99a. https://doi.org/10.1167/19.10.99a.

Wexler, M., Cavanagh, P. (2019). Fast motion drags shape. *Journal of Vision*, **19**(10):288c. https://doi.org/10.1167/19.10.288c.

2018

Anstis, S., & Cavanagh, P. (2018). Crowding and the furrow illusion. *i-Perception*, **9**(5), 1-4. doi: 10.1177/2041669518801029

Cavanagh, P. (2018). Phantoms at the Holiday Inn. In James M. Brown (ed.), *Pioneer Visual Neuroscience: A Feschrift for Naomi Weisstein*. New York: Routledge, pp 33-40.

Cavanagh, P., & Anstis, S. (2018). Diamond patterns: cumulative Cornsweet effects and motion-induced brightening. *i-Perception*, **9**(4), 1-5. doi:10.1177/2041669518770690

Chen, Z., Kosovicheva, A., Wolfe, B., Cavanagh, P., Gorea, A., Whitney, D. (2018). Unifying visual space across the right and left hemifields. *Psychological Science*, **29**(3), 356-369. doi: 10.1177/0956797617735534.

Edwards, G., VanRullen, R., & Cavanagh, P. (2018). Decoding trans-saccadic memory. *Journal of Neuroscience*, **38**(5), 1114-1123. doi: 10.1523/JNEUROSCI.0854-17.2017.

Eymond, C., Cavanagh, P, & Collins, T. (2018). Feature-based attention across saccades: pop-out in color search is spatiotopic. *Attention, Perception & Psychophysics*, 81(1):85-97. doi: 10.3758/s13414-018-1597-5.

Haladjan, H., Lisi, M., & Cavanagh, P. (2018). Motion and position shifts induced by the double-drift stimulus are unaffected by attentional load. *Attention, Performance, & Psychophysics*, 80(4), 884-893. doi: 10.3758/s13414-018-1492-0.

van Heusden, E., Rolfs, M., Cavanagh, P., and Hinze Hogendoorn, H. (2018). Motion extrapolation for eye movements predicts perceived motion-induced position shifts. *Journal of Neuroscience*, **38**(38):8243-8250. doi: 10.1523/JNEUROSCI.0736-18.2018.

Liu, S., Tse, P., & Cavanagh, P. (2018). Meridian interference reveals neural locus of motion-induced position shifts. *Journal of Neurophysiology*, 119(6), 2091-2099. doi: 10.1152/jn.00876.2017.

Massendari, D., Lisi, M., Collins, T., & Cavanagh, P. (2018). Memory-guided saccades show effect of perceptual illusion whereas visually-guided saccades do not. *Journal of Neurophysiology*, **119**, 62-72. doi: 10.1152/jn.00229.2017

Paeye, C., Collins, T., & Cavanagh, P., Herwig, A. (2018). Calibration of peripheral perception of shape with and without saccadic eye movements. *Attention, Perception, & Psychophysics*, **80**(3), 723-737. doi: 10.3758/s13414-017-1478-3.

Santos, P. E., Casati, R. & Cavanagh, P. (2018). Perception, cognition and reasoning about shadows. *Spatial Cognition & Computation*, **18**:2, 78-85. doi: 10.1080/13875868.2017.1377204

Visconti di Oleggio Castello, M., Taylor, M., Cavanagh, P., & Gobbini, M. I. (2018). Idiosyncratic, retinotopic bias in face identification modulated by familiarity. *eNeuro*, 5(5). doi: 10.1523/ENEURO.0054-18.2018

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Cavanagh, P. (2018). Predicting the present: saccade-based vs motion-based remapping. *Journal of Vision*, 18(10):1367-1367. doi: 10.1167/18.10.1367.

Cavanagh, P., Casati, R., & Elder, J. (2018). Tight shadows shrink depth. *Journal of Vision*, 18(10):493-493. doi: 10.1167/18.10.493.

Hartstein, K., Cavanagh, P., & Tse, P. (2018). Path shortening in Transformational Apparent Motion. *Journal of Vision*, 18(10):303-303. doi: 10.1167/18.10.303.

Maechler, M., Cavanagh, P., & Tse, P. (2019). Does covert attentional tracking operate over physical or perceptual coordinates? *Perception*, 48(S1), 34. doi: 10.1177/0301006618824879.

2017

Adamian, N., & Cavanagh, P. (2017). Fröhlich effects and delays of visual attention. *Journal of Vision*, **17**(1):3. doi: 10.1167/17.1.3

Anstis, S., & Cavanagh, P. (2017). Moving backgrounds massively change the apparent size, shape, and orientation of flashed test squares. *iPerception*, **8**(6), 1-4. doi: 10.1177/2041669517737561

Connolly, S., Connolly, D., Cleary, A., Herman, L., & Cavanagh, P. (2017). Build your own equiluminance helmet. *i-Perception*, **8**(4), doi: 10.1177/2041669517716467

Edwards, G., Paeye, C., Marque, P. VanRullen, R., & Cavanagh P. (2017) Predictive position computations mediated by parietal areas: TMS evidence. *Neuroimage*, **153**, 49-57. doi: 10.1073/pnas.1615504114

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