

Curriculum Vitae

Surya Gayet

Research interests

Overarching question: How does the human brain distill the continuous influx of information from our retinæ, transforming it into a comprehensible visual world and –ultimately– giving rise to a conscious visual experience?
Field of research: Visual cognitive neuroscience.

Find me online


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Education

2012 – 2016	PhD in Experimental Psychology Utrecht University	(with highest honors)
2006 – 2011	BSc & MSc in Brain & Cognition University of Amsterdam	(with highest honors)

Academic positions

2021 – ...	Assistant professor (tenured)	Experimental Psychology, Utrecht University (NL)
2019 – 2021	NWO-Veni research fellow	Donders Institute for Brain, Cognition and Behaviour (NL)
2017 – 2019	Postdoctoral researcher	Donders Institute for Brain, Cognition and Behaviour (NL)
2016 – 2017	Postdoctoral researcher / Lecturer	Experimental Psychology, Utrecht University (NL)
2015	Visiting researcher	Brain Center for Advanced Neuroimaging, Berlin (DE)

Grants & awards

2023:	Recipient of the Dutch Society for Brain & Cognition (NVP)'s biennial Early Career Award	€ 500
2021-2023:	Successful co-applications for Chinese Scholarship Council (CSC) funded PhD candidates	4 (out of 4)
2023:	Utrecht University starting grant, funding one 4-year PhD candidate:	€ 240,000
2021:	Donders Centre for Cognition grant supporting a research assistant (320 hours):	€ 8,700
2019:	Highly competitive NWO-Veni grant "Finding objects in natural scenes":	€ 250,000
2018:	NWO Replication Studies grant "Solving arithmetic equations unconsciously":	€ 60,000
2016:	Neuroscience and Cognition Utrecht grant to support ongoing research:	€ 3,500
2014:	Neuroscience and Cognition Utrecht visiting scholarship (to visit Charité, Berlin, DE):	€ 3,000
2012:	Faculty award for best Master's thesis 2010-2011, at the University of Amsterdam:	€ 250

Methods & skills

Methods:	fMRI • Psychophysics • Machine learning • Pupil/eye-tracking • EEG • Computational modeling
Programming:	MatLab (advanced) • Python 3, incl. Keras/Tensorflow (intermediate) • Bash (basic) • R (basic)
Languages:	Dutch (native) • French (native) • English (excellent) • German (passive)

Academic service

Journal reviews (117):	Acta Psychologica (4) • Attention, Perception, & Psychophysics • Behavioural Brain Research • Behavior Research Methods • Brain Stimulation • Cerebral Cortex (3) • Cognition (10) • Cognition & Emotion • Cognitive Neurodynamics (2) • Cognitive Neuropsychiatry • Consciousness & Cognition (8) • Cortex (2) • Emotion • European Journal of Neuroscience (2) • Experimental Brain Research • Evolution and Human Behavior • eLife (3) • Frontiers in Psychology (4) • iScience • Journal of Cognition (2) • Journal of Experimental Psychology: General (2) • Journal of Experimental Psychology: Human Perception, & Performance (7) • Journal of Experimental Psychology: Learning, Memory, & Cognition (6) • Journal of Experimental Social Psychology • Journal of Vision (7) • Memory & Cognition (4) • Memory • Nature Communications • Nature Human Behaviour • Neuroimage (4) • PCI in Registered Reports • PeerJ (2) • Perception (2) • PLOS Biology • PLOS One (4) • Proceedings of the National Academy of Sciences • Psychonomic Bulletin & Review (6) • Psychological Medicine • Psychological Research (2) • Psychological Science • Quarterly Journal of Experimental Psychology (2) • Science Advances • Scientific Reports (6) • Trends in Cognitive Sciences • Vision • Vision Research (2) • Visual Cognition (4)
Grant reviews (11):	NSF, USA • NSF, Poland (4) • ISF, Israël (4) • SNSF, Switzerland • Radboud University internal PhD grant
PhD committees (4):	Katya Olmos-Solis (VU University, Amsterdam) • Chuyao Yan (Donders Institute, Nijmegen) • Selen Gönül (Sabanci University, Istanbul, Turkey) • Caterina Trentin (VU University, Amsterdam)
Abstract committees (2):	European Conference on Visual Perception (ECVP; Nijmegen, The Netherlands) • Perception Day 2023, 2024 (Utrecht, The Netherlands)
Scientific committees (1):	Perception Day 2024 (Utrecht, The Netherlands)
Mentoring / support:	PhD Mentor (confidential advisor) of the Experimental Psychology division, Utrecht University

Invited talks

2024 (upcoming):	Psychology and Brain (PuG) symposium, at University of Hamburg	Hamburg, Germany
2024:	Cardinal Mechanisms of Perception, Justus Liebig University Giessen	Giessen, Germany
2023:	Lehigh University, Department of Psychology (online)	Bethlehem, PA, USA
2022:	Spinoza Centre for Neuroscience	Amsterdam, the Netherlands
2020:	Experimental & Applied Psychology, VU University	Amsterdam, the Netherlands
2019:	Social and Cultural Psychology, Radboud University	Nijmegen, the Netherlands
2019:	KNAW, Royal Dutch Academy of Sciences	Amsterdam, the Netherlands
2019:	Department of Social Psychology, Utrecht University	Utrecht, the Netherlands
2019:	Experimental Cognitive Science, Eberhard Karls University	Tübingen, Germany
2017:	European Conference on Visual Perception (ECPV) symposium	Berlin, Germany
2017:	Amsterdam Brain & Cognition, University of Amsterdam	Amsterdam, the Netherlands
2016:	Psychology Department, Georg-August University of Göttingen	Göttingen, Germany
2016:	Experimental Psychology, Helmholtz Institute, Utrecht University	Utrecht, the Netherlands
2016:	Conference of Experimental Psychologists (TEAP) symposium	Heidelberg, Germany
2015:	Visual Perception Laboratory, Charité University Hospital	Berlin, Germany
2014:	Continuous Flash Suppression expert meeting, Ghent University	Ghent, Belgium
2013:	Department of Cognitive Psychology, VU University	Amsterdam, the Netherlands

Outreach (general audience)

2024	Video	Explainer video for platform “ De Universiteit van Nederland ” (shared by major Dutch news outlets NU.nl and AD.nl)
2024	Lecture	U-Talent Musical Brainwaves: lecture on perception to 1 st year secondary school students (Utrecht, The Netherlands)
2024	Podcast	BNR Nieuwsradio item “In hoeverre beïnvloedt onze verwachting wat we zien?” (Dutch national radio)
2023 – now:	Lecture	On-demand lecture “How Experience Shapes Your Perception of the World”, Leqture (online platform)
2023	Video	Online citizen science project “Ik zie ik zie wat jij niet ziet” (here) with accompanying explainer video
2023:	Show	“Operatie Breinbreker” (EN: Operation Brainteaser) science show for ages 8+ (Utrecht, The Netherlands)
2023:	Book	Contribution to “Zoek het uit!”, Dutch book on experimental science for primary school children
2023:	Talk	General audience talk “Visuals x Brains”, for Studium Generale TU/Eindhoven (the Netherlands)
2022:	Talk	General audience talk on visual perception, at Betweter Festival (Utrecht, the Netherlands)
2022 – now:	Course	Recurring Masterclass “Psychology in 1 day”, via SUAS (throughout the Netherlands)

Supervision

	Name	Period	University/institute	Main supervisor
Postdoc supervision:	Myrthel Dogge	2019 – 2020	Donders Institute	Surya Gayet
PhD co-supervision:	Lasse Dietz	2024 – ...	Utrecht University	Stefan van der Stigchel
	Dan Wang	2023 – ...	Utrecht University	Stefan van der Stigchel
	Kabir Arora	2022 – ...	Utrecht University	Stefan van der Stigchel
	Liangyou Zhang	2022 – ...	Utrecht University	Ben M. Harvey
	Yichen Yuan	2022 – ...	Utrecht University	Ben M. Harvey
	Luzi Xu	2021 – ...	Utrecht University	Stefan van der Stigchel
	Andre Sahakian	2021 – ...	Utrecht University	Stefan van der Stigchel
	Giacomo Aldegheri	2018 – 2023	Radboud University	Marius V. Peelen
	Paul Zerr	2016 – 2022	Utrecht University	Stefan van der Stigchel
Visiting PhD supervision:	Myrthel Dogge	2016 – 2019	Utrecht University	Henk Aarts
	Xiaohua Bao (12 months)	2023-2024	Utrecht University	Surya Gayet
	Piotr Litwin (1 month)	2019	Radboud University	Surya Gayet
	Name	Latest academic position	University/institute	
BSc/MSc supervision: (selection of students who pursued a career in research)	Micha Heilbron	Assistant Professor	University of Amsterdam	
	Jelle van Dijk	Postdoc	Spinoza Centre for Neuroimaging	
	Nastasia Griffioen	Postdoc	Technical University Twente	
	Hannah Spencer	PhD candidate	University of Amsterdam	
	Tessel Blom	PhD candidate	University of Melbourne	
	Emma Everaert	PhD candidate	Utrecht University	
	Simone Burger	PhD candidate	VU Amsterdam	
	Lisa Beckmann	PhD candidate	Ludwig Maximilians Universität Munich	
	Maëlle Lerebourg	PhD candidate	Donders Institute	
	Andre Sahakian	PhD candidate	Utrecht University	
	Vera van der Burg	PhD candidate	Technical University Delft	
	Jorie van Haaren	PhD candidate	Maastricht University	
	Hanne Oberman	PhD candidate	Utrecht University	
	Cees van Middelkoop	Data Scientist	TNO	

Femke Ruijs
Marleen Abbestee

Research Assistant
Research Assistant

Utrecht University
Utrecht University

Teaching

Teaching qualification:	University Teaching Qualification (Basis Kwalificatie Onderwijs), Utrecht University, 2018.
Courses (co)coordinated:	Utrecht University: Conscious Brain, Unconscious Mind (spanning multiple faculties) • Advanced Research Methods and Statistics (spanning multiple departments) • Bachelor theses in Cognitive and Neurobiological Psychology and Neuropsychology (spanning multiple divisions) • Cognitive Modeling (workgroup coordination). SUAS (Schouten & Nelissen University of Applied Sciences): Psychologie in 7 dagen (MA accredited course).
Courses (co)developed:	Utrecht University: Introduction to Cognitive Sciences (14 two-hour workgroups in which first-year students develop, conduct, analyze, interpret, and present an empirical study). • Advanced Research Methods and Statistics (two series of 2 lectures and 4 lab practicals, in which students learn advanced analyses of behavioral data). • Conscious Brain, Unconscious Mind (a workgroup for 60 students on deep learning: auto-regressive language models and text-to-image diffusion models). SUAS: Psychologie in 1 dag: an 8-hour masterclass offering a birds-eye view on psychology • Psychologie in 7 dagen: an 8-hour intro lecture on cognitive psychology • Het brein in de organisatie: an 8-hour lecture on attention and concentration.
Courses taught:	Utrecht University: Introduction to Cognitive Sciences • Introduction to Cognitive Modeling • Cognitive Modeling • Programming for Cognitive and Neurobiological Psychology • Experimenting and Registering • Cognitive Neuroscience: Perception & Sensation. • Cognitive Neuroscience Fundamentals: Sensation & Perception • Conscious Brain, Unconscious Mind (Faculty of Science) • Network Analysis • Applied Data Science (Artificial Intelligence). Radboud University: Academic Skills II: Research Design • Applied Research Methods: fMRI. SUAS: Psychologie in 7 dagen: Functieleer • Psychologie in één dag • Het brein in de organisatie: Aandacht en concentratie.
Thesis supervision (BSc):	Utrecht University: Cognitive Artificial Intelligence • Artificial Intelligence • Biology • Liberal Arts and Sciences • Cognitive and Neurobiological Psychology. University College Utrecht: Psychology. Radboud University: Psychology. University of Amsterdam: Psychobiology.
Thesis supervision (MSc):	Utrecht University: Neuroscience and Cognition (research master) • Neuropsychology • Applied Cognitive Psychology • Applied Data Science • Artificial Intelligence. Radboud University: Cognitive Neuroscience (research master). University of Amsterdam: Brain and Cognition (research master). SUAS: Master Human Development.

Submitted manuscripts & pre-prints

- Sahakian, A., **Gayet, S.**, Paffen, C. L. E., Van der Stigchel, S. The rise and fall of memories: temporal dynamics of visual working memory.
- Xu, L., **Gayet, S.**, Sahakian, A., Gottlieb, J. P., Van der Stigchel, S., & Paffen, C. L. E. Trade-offs between visual sampling and memory in stable and changing worlds.
- Stockart, F., Schreiber, M., et al. Studying unconscious processing: towards a consensus on best practices.
- Arora, K., **Gayet, S.**, Kenemans, J. L., Van der Stigchel, S., & Chota, S. Rapid invisible frequency tagging (RIFT) in a novel setup with EEG. [[preprint](#)]
- Derksen et al. Replication studies in the Netherlands: Lessons learned and recommendations for funders, publishers and editors, and universities. [[preprint](#)]
- Xu, L., Sahakian, A., **Gayet, S.**, Paffen, C. L. E., & Van der Stigchel, S. Latent memory traces for prospective items in visual working memory. [[pre-print](#), [materials](#)]
- Harvey, B. M., Van Ackooij, M., van Helden, J., Hendriks, E., Van der Stoep, N., **Gayet, S.**, & Paul, J. M. Tuned responses to visual short-term memory load in a fronto-parietal topographic map hierarchy. [[pre-print](#)]
- Xu, L., Paffen, C. L. E., Van der Stigchel, S., & **Gayet, S.** Statistical learning facilitates access to awareness. [[preregistration](#), [pre-print](#)]

Peer-reviewed publications

- Zerr, P., **Gayet, S.**, Van der Stigchel, S. (2024). Memory reports are biased by all relevant contents of working memory. *Scientific Reports*, 14: 2507. doi: <https://doi.org/10.1038/s41598-024-51595-6> [[materials](#), [preregistration](#)]
- Sahakian, A., **Gayet, S.**, Paffen, C. L. E., & Van der Stigchel, S. (in press). Action consequences guide the use of visual working memory. *Journal of Experimental Psychology: Learning, Memory and Cognition*. doi: [10.1037/xlm0001326](https://doi.org/10.1037/xlm0001326) [[pre-print](#), [materials](#)]
- Gayet, S.**, Battistoni, E., Thorat, S., & Peelen, M. V. (2024). Searching near and far: the attentional template incorporates viewing distance. *Journal of Experimental Psychology: Human Perception and Performance*, 50(2), 216-231. doi: [10.1037/xhp0001172](https://doi.org/10.1037/xhp0001172) [[pre-print](#), [materials](#)]
- Litwin, P., Motyka, P., & **Gayet, S.** (in press). Physiological arousal underlies preferential access to visual awareness of fear-conditioned (and possibly disgust-conditioned) stimuli. *Emotion*. doi: [10.1037/emo0001296](https://doi.org/10.1037/emo0001296) [[pre-print](#), [materials](#), [preregistration](#)]
- Aldegheri, G., **Gayet, S.**, & Peelen, M. V. (2023). Scene context automatically drives predictions of object transformations. *Cognition*, 238: 105521. doi: [10.1016/j.cognition.2023.105521](https://doi.org/10.1016/j.cognition.2023.105521) [[pre-print](#), [materials](#)]
- Chota, S., **Gayet, S.**, Kenemans, J. L., Olivers, C. N. L., & Van der Stigchel, S. (2023). A matter of availability: Sharper tuning for memorized than for perceived stimulus features. *Cerebral Cortex*, 33(12), 7608-7618. doi: [10.1093/cercor/bhad064](https://doi.org/10.1093/cercor/bhad064) [[pre-print](#)]
- Sahakian, A., **Gayet, S.**, Paffen, C. L. E., & Van der Stigchel, S. (2023). Mountains of memory in a sea of uncertainty: Sampling the external world despite useful information in visual working memory. *Cognition*, 234:105381. doi: [10.1016/j.cognition.2023.105381](https://doi.org/10.1016/j.cognition.2023.105381) [[materials](#)]
- Gayet, S.**, Sahakian, A., Paffen, C. L. E., & Van der Stigchel, S. (2022). No evidence for social factors in the overestimation of individuals from minority groups. *Proceedings of the National Academy of Sciences*, 119(47): e2214740119. doi: [10.1073/pnas.2214740119](https://doi.org/10.1073/pnas.2214740119) [[methods & materials](#)]
- Sahakian, A., Paffen, C. L. E., Van der Stigchel, S., & **Gayet, S.** (2022). A nasal visual field advantage in interocular competition. *Scientific Reports*, 12:4616. doi: [10.1038/s41598-022-08473-w](https://doi.org/10.1038/s41598-022-08473-w) [[materials](#)]

- Gayet, S., & Peelen, M. V. (2022). Preparatory attention incorporates contextual expectations. *Current Biology*, 32(3), 687-692. doi: [10.1016/j.cub.2021.11.062](https://doi.org/10.1016/j.cub.2021.11.062) [pre-print, materials]
- Healthy Brain Consortium (2021). Protocol of the Healthy Brain Study: An accessible resource for understanding the human brain and how it dynamically and individually operates in its bio-social context. PLoS ONE, 16(12): e0260952. doi: [10.1371/journal.pone.0260952](https://doi.org/10.1371/journal.pone.0260952) [pre-print]
- Iamshchinina, P., Christophel, T. B., Gayet, S., & Rademaker, R. L. (2021). Essential considerations for exploring visual working memory storage in the human brain. *Visual Cognition*, 29(7), 425-436. doi: [10.1080/13506285.2021.1915902](https://doi.org/10.1080/13506285.2021.1915902)
- Zerr, P., Gayet, S., & Van der Stigchel, S. (2021). The development of retro-cue benefits with extensive practice: implications for capacity estimation and attentional states in working memory. *Memory & Cognition*, 49, 1036-1049. doi: [10.3758/s13421-021-01138-5](https://doi.org/10.3758/s13421-021-01138-5)
- Ding, Y., Naber, M., Paffen, C. L. E., Gayet, S., & Van der Stigchel, S. (2021). How retaining objects containing multiple features in visual working memory regulates the priority for access to visual awareness. *Consciousness & Cognition*, 87: 103057. doi: [10.1016/j.concog.2020.103057](https://doi.org/10.1016/j.concog.2020.103057)
- Gayet, S., Guggenmos, M., Christophel, T. B., Haynes, J.-D., Paffen, C. L. E., Sterzer, P., & Van der Stigchel, S. (2020). No evidence for mnemonic modulation of interocularly suppressed visual input. *Neuroimage*, 215, 116801. doi: [10.1016/j.neuroimage.2020.116801](https://doi.org/10.1016/j.neuroimage.2020.116801)
- Gayet, S., Douw, I., van der Burg, V., Van der Stigchel, S., & Paffen, C. L. E. (2020). Hide and seek: Directing top-down attention is not sufficient for accelerating conscious access. *Cortex*, 122, 235-252. doi: [10.1016/j.cortex.2018.08.027](https://doi.org/10.1016/j.cortex.2018.08.027)
- Gayet, S., & Peelen, M. V. (2019). Scenes modulate object processing before interacting with memory templates. *Psychological Science*, 30(10), 1497-1509. doi: [10.1177/0956797619869905](https://doi.org/10.1177/0956797619869905)
- Dogge, M., Custers, R., Gayet, S., Hoijtink, H., & Aarts, H. (2019). Perception of action-outcomes is shaped by life-long and contextual expectations. *Scientific Reports*, 9:5225. doi: [10.1038/s41598-019-41090-8](https://doi.org/10.1038/s41598-019-41090-8)
- Gayet, S., Van Moorselaar, D., Paffen, C. L. E., Olivers, C. N. L., & Van der Stigchel, S. (2019). Prospectively reinstated memory drives conscious access of matching visual input. *Scientific Reports*, 9, 4793. doi: [10.1038/s41598-019-41350-7](https://doi.org/10.1038/s41598-019-41350-7)
- Moors, P., Gayet, S., Hedger, N., Stein, T., Sterzer, P., van Ee, R., Wagemans, J., & Hesselmann, G. (2019). Three criteria for evaluating high-level processing in continuous flash suppression. *Trends in Cognitive Sciences*, 23(4), 267-269. doi: [10.1016/j.tics.2019.01.008](https://doi.org/10.1016/j.tics.2019.01.008)
- Gayet, S., Stein, T., Peelen, M. V. (2019). The danger of interpreting detection differences between image categories, *Emotion*, 19(5), 928-932. doi: [10.1037/emo0000550](https://doi.org/10.1037/emo0000550) [pre-print]
- Stein, T., Awad, D., Gayet, S., & Peelen, M. V. (2018). Unconscious processing of facial dominance: The role of low-level factors in access to awareness. *Journal of Experimental Psychology: General*, 147(11), e1-e13. doi: [10.1037/xge0000521](https://doi.org/10.1037/xge0000521) [pre-print, materials & preregistration]
- Ding, Y., Naber, M., Gayet, S., Van der Stigchel, S., & Paffen, C. L. E. (2018). Assessing the generalizability of eye dominance across binocular rivalry, onset rivalry and continuous flash suppression. *Journal of Vision*, 18(6): 6. doi: [10.1167/18.6.6](https://doi.org/10.1167/18.6.6)
- Dogge, M., Gayet, S., Custers, R., & Aarts, H. (2018). The influence of action-effect anticipation on bistable perception: differences between onset rivalry and ambiguous motion. *Neuroscience of Consciousness*, 1, niy004. doi: [10.1093/nc/niy004](https://doi.org/10.1093/nc/niy004)
- Paffen, C. L. E., Gayet, S., Heilbron, M., & Van der Stigchel, S. (2018). Attention-based perceptual learning does not affect access to awareness. *Journal of Vision*, 18(3): 7. doi: [10.1167/18.3.7](https://doi.org/10.1167/18.3.7)
- Gayet, S., Paffen, C. L. E., & Van der Stigchel, S. (2018). Visual working memory storage recruits sensory processing areas. *Trends in Cognitive Sciences*, 22(3), 189-190. doi: [10.1016/j.tics.2017.09.011](https://doi.org/10.1016/j.tics.2017.09.011)
- van Moorselaar, D., Gayet, S., Paffen, C. L. E., Theeuwes, J., Van der Stigchel, S., & Olivers, C. N. L. (2018). Competitive interactions in visual working memory drive access to awareness. *Cortex*, 102, 6-13. doi: [10.1016/j.cortex.2017.03.026](https://doi.org/10.1016/j.cortex.2017.03.026)
- Zerr, P., Gayet, S., Mulder, K., & Van der Stigchel, S. (2017). Remapping high-capacity, pre-attentive, fragile sensory memory. *Scientific Reports*, 7:15940. doi: [10.1038/s41598-017-16156-0](https://doi.org/10.1038/s41598-017-16156-0)
- Gayet, S., Guggenmos, M., Christophel, T. B., Haynes, J.-D., Paffen, C. L. E., Van der Stigchel, S., & Sterzer, P. (2017). Visual working memory enhances the neural response to matching visual input. *Journal of Neuroscience*, 37(28), 6638-6647. doi: [10.1523/JNEUROSCI.3418-16.2017](https://doi.org/10.1523/JNEUROSCI.3418-16.2017)
- Gayet, S., & Stein, T. (2017). Between-subject variability in the Breaking Continuous Flash Suppression paradigm: Potential causes, consequences, and solutions. *Frontiers in Psychology: Consciousness Research*, 8, 437. doi: [10.3389/fpsyg.2017.00437](https://doi.org/10.3389/fpsyg.2017.00437)
- Gayet, S., van Maanen, L., Heilbron, M., Paffen, C. L. E., & Van der Stigchel, S. (2016). Visual input that matches the content of visual working memory requires less (not faster) evidence sampling to reach conscious access. *Journal of Vision*, 16(11): 26. doi: [10.1167/16.11.26](https://doi.org/10.1167/16.11.26)
- Gayet, S. (2016). From the blind eye to the mind's eye: How behavioral relevance determines access to visual awareness (doctoral dissertation). Utrecht University, Utrecht, The Netherlands. ISBN/EAN: 978-90-393-6555-7. link: <https://dspace.library.uu.nl/handle/1874/334106>
- Gayet, S., Paffen, C. L. E., Belopolsky, A. V., Theeuwes, J., & Van der Stigchel, S. (2016). Visual input signaling threat gains preferential access to awareness in a breaking continuous flash suppression paradigm. *Cognition*, 149, 77-83. doi: [10.1016/j.cognition.2016.01.009](https://doi.org/10.1016/j.cognition.2016.01.009)
- Gayet, S., Brascamp, J. W., Van der Stigchel, S., & Paffen, C. L. E. (2015). Cogito ergo video: Task relevant information is involuntarily boosted into awareness. *Journal of Vision*, 15(5):3. doi: [10.1167/15.5.3](https://doi.org/10.1167/15.5.3)
- Gayet, S., Van der Stigchel, S., & Paffen, C. L. E. (2014). Breaking continuous flash suppression: Competing for consciousness on the pre-semantic battlefield. *Frontiers in Psychology: Consciousness Research*, 5, 460. doi: [10.3389/fpsyg.2014.00460](https://doi.org/10.3389/fpsyg.2014.00460)
- Gayet, S., Van der Stigchel, S., & Paffen, C. L. E. (2014). Seeing is believing: Utilization of subliminal symbols requires a visible relevant context. *Attention, Perception & Psychophysics*, 76, 489-507. doi: [10.3758/s13414-013-0580-4](https://doi.org/10.3758/s13414-013-0580-4)
- Gayet, S., Paffen, C. L. E., & Van der Stigchel, S. (2013). Information matching the content of visual working memory is prioritized for conscious access. *Psychological Science*, 24(12), 2472-2480. doi: [10.1177/0956797613495882](https://doi.org/10.1177/0956797613495882)

Published conference abstracts

- Sahakian, A., Gayet, S., Paffen, C. L. E., & Van der Stigchel, S. (2023). Action consequences guide visual working memory use. *Journal of Vision*, 23(9): 4884. doi: [10.1167/jov.23.9.4884](https://doi.org/10.1167/jov.23.9.4884) [VSS 2023 talk]
- Xu, L., Paffen, C. L. E., Van der Stigchel, S., & Gayet, S. (2023). Statistical learning facilitates the selection of stimuli into awareness. *Journal of Vision*, 23(9): 4988. doi: [10.1167/jov.23.9.4988](https://doi.org/10.1167/jov.23.9.4988) [VSS 2023 poster]

- Gayet, S.,** Battistoni, E., Thorat, S., & Peelen, M. V. (2023). Searching near and far: the attentional template incorporates viewing distance. *Journal of Vision*, 23(9): 4686. doi: [10.1167/jov.23.9.4686](https://doi.org/10.1167/jov.23.9.4686) [VSS 2023 poster]
- Chota, S., **Gayet, S.,** Kenemans, J. L., Olivers, C. N. L., & Van der Stigchel, S. (2023). A matter of availability: Sharper tuning for memorized than for perceived stimulus features. *Journal of Vision*, 23(9): 5213. doi: [10.1167/jov.23.9.5213](https://doi.org/10.1167/jov.23.9.5213) [VSS 2023 poster]
- Zhang, L., Hendriks, E., **Gayet, S.,** Wang, Y., Dumoulin, S. O., & Harvey, B. M. (2023). Adaptation to numerosity changes monotonic responses of early visual cortex. *Journal of Vision*, 23(9): 4731. doi: [10.1167/jov.23.9.4731](https://doi.org/10.1167/jov.23.9.4731) [VSS 2023 poster]
- Gayet, S.,** Peeters, M., Gandolfo, M., & Peelen, M. V. (2022). Real-world object size inferred from scene context sharpens object representations in visual cortex. *Perception*, 51: 181. doi: [10.1177/03010066221141167](https://doi.org/10.1177/03010066221141167) [ECVP 2022 talk]
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