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Árni Gunnar Ásgeirsson

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University of Akureyri
Sólborg v. Norðurslóð 2
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EDUCATION

Ph.D., Experimental Psychology October 2014
University of Copenhagen, Denmark
Thesis: *A brief history of selection:
Effects of repetition and reward on visual cognition*

Magister Scientiarum, Psychology October 2010
University of Iceland, Reykjavík, Iceland
Thesis: *Accounting for priming in visual search*

Baccalaureus Artium, Psychology October 2007
University of Iceland, Reykjavík, Iceland
Thesis: *Vernier acuity across the blind-spot and in the periphery* (Icelandic)

PROFESSIONAL EXPERIENCE

University of Akureyri, Iceland 2023 –
Head of the Faculty of Psychology

University of Akureyri, Iceland August 2020 –
Dósent (Associate Professor; tenure from 1. jan, 2022)

University of Akureyri, Iceland January 2017 – July 2020
Lektor (Assistant Professor)

Leiden University, The Netherlands February 2015 – December 2016
Postdoctoral researcher

Center for Visual Cognition, University of Copenhagen, Denmark September 2014 – January 2015
Research Assistant

Cognitive Neuroscience Research Unit, University of Aarhus, Denmark May – July 2014
Research Assistant

Department of Psychology, Aalborg University, Denmark February 2014 – June 2014
External Lecturer.

Department of Psychology, University of Copenhagen, Denmark Ph.d. student – At Center for Visual Cognition – Supervisor: Claus Bundesen	November 2010 – March 2014
Department of Nursing, University of Iceland Research Assistant	June – August 2010
Department of Psychology, University of Iceland Research Assistant	June – August 2009
Icelandic Web of Science (www.visindavefur.is) Freelance Researcher on Project: YOSCIWEB	March – May 2009
Research Institute for Pharmaceutical Outcomes and Policy, University of Iceland Project manager: Drug wastage in Iceland	April – October 2008
City of Reykjavík Temporary department manager at Byggðarendi 6	March 2007– January 2008
University of Iceland Teaching Assistant	January 2007 – June 2010
National University Hospital of Iceland Employee at Laugarásvegur 71	May – September 2006

PUBLICATIONS

Peer-reviewed publications:

- Khvostov, V., Ásgeirsson, Á.G. & Kristjánsson, Á. (submitted to Journal of Experimental Psychology: General). Explicit Access to Detailed Representations of Feature Distributions
- Iakovlev, A., Khvostov, V., Ásgeirsson, Á.G., Utochkin, I., Kristjánsson, Á. (in review at Attention, Perception & Psychophysics). Amplification from saliency affects explicit but not implicit ensemble representations
- Fuller, J.C.M, Kristjánsson, Á., Clarke, A., & Ásgeirsson, Á.G. (in review at Attention, Perception & Psychophysics). Continuous feature foraging: Modelling probabilistic attentional selection in vision with a generative model
- Mannix, T., Sørensen, T.A., Shepherdson, P. & Ásgeirsson, Á.G. (under revision). Synaesthetic colours do not facilitate pop-out, search rates or perceptual decision making. *Acta Psychologica*.
- Entzmann, L., Ásgeirsson, Á.G., & Kristjánsson, Á. (2025). How does color distribution learning affect goal-directed visuomotor behavior?. *Cognition*, 254, 106002. <https://doi.org/10.1016/j.cognition.2024.106002>
- Kristjánsson, Á. & Ásgeirsson, Á. G. (2021). The moment-by-moment attentional temperature: How do history effects influence attentional capture?, *Visual cognition*, 29, 583–586. <https://doi.org/10.1080/13506285.2021.1918809>
- Ásgeirsson, Á. G. & Kristjánsson, Á. (2019). Attentional priming does not enable observers to ignore salient distractors, *Visual Cognition*, 27, 595–608. <https://doi.org/10.1080/13506285.2019.1657215>
- Jonauskaitė, D., Abdel-Khalek, A., Abu-Akel, A., Al-Rasheed, A.S., Antonietti, J-P, Ásgeirsson, Á.G., ..., Mohr, C. (2019). The sun is no fun without rain: Physical environments affect how we feel about yellow across 55 countries *Journal of Environmental Psychology*, 66, a101350. <https://doi.org/10.1016/j.jenvp.2019.101350>

- Ásgeirsson, Á. G. & Nieuwenhuis, S. (2019). Effects of arousal on biased competition in attention and short-term memory. *Attention, Perception & Psychophysics*, 81, 1901–1912. <https://doi.org/10.3758/s13414-019-01756-x>
- Kristjánsson, Á. & Ásgeirsson, Á. G. (2019). Attentional priming: Recent insights and current controversies. *Current Opinion in Psychology*, 29, 71–75. <https://doi.org/10.1016/j.copsyc.2018.11.013>
- Ásgeirsson, Á. G. & Nieuwenhuis, S. (2017). No arousal-biased competition in focused visuospatial attention. *Cognition*, 168, 191–204. <https://doi.org/10.1016/j.cognition.2017.07.001>.
- Ásgeirsson, Á. G., Nordfang, M. & Sørensen, T. A. (2015). Components of attention in grapheme-color synesthesia: A modeling approach. *PLOS One*, 10(8), 1–19. <https://doi.org/10.1371/journal.pone.0134456>.
- Ásgeirsson, Á. G., Kristjánsson, Á. & Bundesen, C. (2015). Repetition priming in selective attention: A TVA analysis. *Acta Psychologica*, 160, 35–62. <https://doi.org/10.1016/j.actpsy.2015.06.008>.
- Ásgeirsson, Á. G. & Kristjánsson, Á. (2014). Random reward priming is task-contingent: The robustness of the 1-trial reward priming effect. *Frontiers in Psychology*, 5:309, 1–10. <https://doi.org/10.3389/fpsyg.2014.00309>.
- Ásgeirsson, Á. G., Kristjánsson, Á. & Bundesen, C. (2014). Independent priming of location and color in identification of briefly presented letters. *Attention, Perception & Psychophysics*, 76, 40–48. <https://doi.org/10.3758/s13414-013-0546-6>
- Jóhannesson, Ó. I., Ásgeirsson, Á. G. & Kristjánsson, Á. (2012). Saccade performance in the nasal and temporal hemifields. *Experimental Brain Research*, 219, 107–120. <https://doi.org/10.1007/s00221-012-3071-2>
- Ásgeirsson, Á. G. & Kristjánsson, Á. (2011). Episodic retrieval and feature facilitation in intertrial priming of visual search. *Attention, Perception & Psychophysics*, 73, 1350–1360. <https://doi.org/10.3758/s13414-011-0119-5>

Book chapters:

- Ásgeirsson, Á.G. (2022). Perceptuel hukommelse og priming. In Sørensen, T.A., Gjedde, A. & Rasmussen, R.S. (Eds.). *Hjernen og hukommelsen*. Hjerneforum.

Published abstracts:

- Khvostov, V., Ásgeirsson, Á.G., & Kristjánsson, Á. (2024). Does selective attention utilize physical feature values or perceptual interpretations? *Journal of Vision*, 24, 547.
- Entzmann, L., Kristjánsson, Á., Baldvinson, J., & Ásgeirsson, Á.G. (2024). Color distribution learning modulates saccade endpoints: a study of the global effect. *Journal of Vision*, 24, 515.
- Khvostov, V., Ásgeirsson, Á.G., & Kristjánsson, Á. (2023). Are attentional templates based on physical feature values or perceptual interpretations?. *Journal of Vision* 23(9), 5136. <https://doi.org/10.1167/jov.23.9.5136>.
- Entzmann, L., Ásgeirsson, Á.G. , & Árni Kristjánsson. (2023). How does color distribution learning affect oculomotor selection? *Journal of Vision* 2023;23(9)5087. <https://doi.org/10.1167/jov.23.9.5087>
- Ásgeirsson, Á.G. & Kristjánsson, Á. (2019). No feature-based attention in additional singleton search. *Perception*, 48(2S), 47–48.
- Ásgeirsson, Á. G., Barckmann, C., Þórudóttir, S., & Jóhannesdóttir Petersen, M. (2018). Flexible visual memory coding revealed by probing method. *Journal of Vision*, 18, 829–829. <https://doi.org/10.1167/18.10.829>
- Ásgeirsson, Á., & Nieuwenhuis, S. (2017). No arousal-biased competition in visuospatial attention. *Journal of Vision*, 17, 961–961. <https://doi.org/10.1167/17.10.961>
- Ásgeirsson, Á. G. & Nieuwenhuis, S. (2016). Arousing brute force and alerting selectivity in visual attention. *Journal of Vision*, 16, 1022–1022. <https://doi.org/10.1167/16.12.1022>

- Sørensen, T. A., Nordfang, M., & Ásgeirsson, Á. G. (2016). Gradual consolidation of synesthesia during adolescence: a case study. *Journal of Vision*, 16, 460–460. <https://doi.org/10.1167/16.12.460>.
- Sørensen, T. A., Nordfang, M., & Ásgeirsson, Á. G. (2015). Synesthesia induced colors do not bias attention in the same manners as physical colors do. *Journal of Vision*, 15, 66–66. <https://doi.org/10.1167/15.12.66>
- Ásgeirsson, Á.G., Kristjánsson, Á., Einarsdóttir, K.V. & Bundesen, C. (2014). The color of money: Value-driven selectivity enhancements. *Journal of Vision*, 14, 499–499. <https://doi.org/10.1167/14.10.499>
- Sørensen, T.A., Ásgeirsson, Á.G., Staugaard, C.F. & Overgaard, M.S (2014). Dissociating Contents of Consciousness from Contents of Short-Term Memory *Journal of Vision*, 14, 1382. <https://doi.org/10.1167/14.10.1382>
- Sørensen, T. A., Nordfang, M., Pedersen, M. N., Overgaard, M. S., & Ásgeirsson, Á. G. (2013). Components of Attention in Synesthesia. *Journal of Vision*, 13, 1328–1328. <https://doi.org/10.1167/13.9.1328>
- Ásgeirsson, A., & Kristjánsson, A. (2013). When actions have no consequences: Rewards in visual search and the role of contingencies. *Journal of Vision*, 13, 898–898. <https://doi.org/10.1167/13.9.898>
- Ásgeirsson, Á., Kyllingsbæk, S., Kristjánsson, Á., & Bundesen, C. (2012). The weight of the visual world is modified by recent experience: Modeling repetition priming in a partial report task. *Journal of Vision*, 12, 931–931. <https://doi.org/10.1167/12.9.931>
- Ásgeirsson, Á., Kristjánsson, Á., Kyllingsbæk, S., Hrólfssdóttir, K., Hafþórsdóttir, H. & Bundesen C. (2011). Position priming in briefly presented search arrays. *Perception*, 40, (ECP Abstract Supplement), 109.
- Kristjánsson A, Johannesson O & Ásgeirsson A. (2011). Saccadic asymmetries in response to temporal versus nasal trigger stimuli depends upon attentional demands. *Perception*, 40, (ECP Abstract Supplement), 150.
- Ásgeirsson, Á., Aurich, M., & Kristjánsson, Á. (2010). Independent and additive effects of repetition of target and distractor sets in active visual search. *Journal of Vision*, 10, 1288. <https://doi.org/10.1167/10.7.1288>
- Almarsdóttir, A.B., & Ásgeirsson, Á.G. (2009). Unused Drugs in Iceland-Value of and Reasons for Disposal. In *Pharmacoepidemiology and Drug Safety*, 18, S231–S232.
- Ásgeirsson Á.G. & Kristjánsson Á. (2008). Episodic retrieval accounts of priming in visual search explain only a limited subset of findings on priming. *Perception*, 37, (ECP Abstract Supplement), 93.

Other publications:

- Sørensen, T.A., & Ásgeirsson, Á.G. (2013). Sanseoplevelser i Hjernen-Synæstesi. *Psykologisk Set*, 30, 23–29.
- Ásgeirsson, Á.G. & Almarsdóttir, A.B. (2008). *Sóun lyfja á Ísland (Drug wastage in Iceland)*. Report written for Research Institute for Pharmaceutical Outcomes and Policy.
- Ásgeirsson, Á.G. & Kristjánsson, Á. (2008) Episodic retrieval accounts of priming in visual search explain only a limited subset of findings on priming. In Jóhannesson, G.P. & Björnsdóttir, H. *Rannsóknir í Félagsvísindum IX: Félags- og Mannvísindadeild, Félagsráðgjafardeild, Sálfræðideild og Stjórnmalaf-ræðideild*. Reykjavík: Author.

Presentations without publication:

- *Verkaskipting á íslenskum heimilum*. (June, 2023). Presented at the conference *Íslenska Þjóðfélagið*, Akureyri, Iceland.
- *No synesthetic pop-out in visual search: another nail in the coffin of the superpower hypothesis*. (June, 2021). Presented at the Second Icelandic Vision Lab summer symposium, Laugarvatn, Iceland.
- *No feature-based attention in additional singleton search*. (August, 2019). Presented at the *European Conference on Visual Perception*, Leuven, Belgium.

- *A visual and cognitive examination of the SET card game.* (March, 2019). Presented at the 2nd Icelandic Vision lab meeting, Stykkishólmur, Iceland.
- *Revisiting the lack of top-down control of feature-based attention.* (October, 2018). Presented at the 1st Icelandic Vision Lab meeting, University of Akureyri, Akureyri, Iceland.
- *Synesthesia guided attention.* (December, 2017). Presented at the Symposium on Synaesthesia, Expertise and Multisensory Perception, Sino-Danish Center, Beijing, China
- *A new online screening tool for grapheme-color synesthesia.* (December, 2017). Presented at the Symposium on Synaesthesia, Expertise and Multisensory Perception, Sino-Danish Center, Beijing, China
- *Failure to replicate arousal-biased competition in divided visuospatial attention.* (August, 2016). Presented at JASP workshop, University of Amsterdam, Netherlands.
- *Visual selectivity is not enhanced by arousal.* (December, 2015). Presented at NVP Winter Congress, Egmond aan See, Netherlands.
- *Components of attention in synesthesia congruent processing.* (February, 2014). Presented at Synaesthesia in Perspective: Development, Networks, and Multisensory Processing, Hamburg, Germany.
- *When actions have no consequences.* (October 2013). Presented at Rovereto Attention Workshop, Rovereto, Italy.
- *TVA-based studies of priming in visual search.* (June 2012). Presented at The Meeting of the iTVA network, Copenhagen, Denmark.
- *Eftirtekt of augnhreyfingar: Áhrif af endurtekinni birtingu áreita í sjónleit.* (April 2010). Presented at the Annual meeting of the Icelandic Psychological Association.

TEACHING EXPERIENCE

University of Akureyri

- *Advanced Research Methods in Psychology (MS level) 2022, 2024 (lecturer)*
- *Cognitive Psychology 2017, 2018, 2019, 2020 (Coordinator and primary lecturer)*
- *Cognitive Neuroscience 2017, 2018 (Coordinator and primary lecturer)*
- *Experimental Psychology 2017, 2018 spring, 2018 fall, 2019, 2020, 2022, 2023, 2024 (Coordinator and primary lecturer)*
- *Foundations of Psychology 2024 (lecturer)*
- *Foundations of Statistical Analysis 2023, 2024 (coordinator and lecturer)*
- *General Psychology 2019, 2020 (lecturer)*
- *Research Methods and Statistical Analysis 2020 (coordinator and primary lecturer)*
- *Sensation and Perception 2020, 2022 (coordinator and primary lecturer)*
- *Coordinator of psychology BA project administration (2017–2018, 2019–2021)*
- *Bachelor's Project Supervisor (19 projects, 2017–2024)*
- *MA project co-supervisor (student: Guðný Guðlaugsdóttir; Dept. education)*

Leiden University

- *International Bachelor's Project supervisor (2 projects)*

University of Aalborg

- Co-supervisor of phd student Thea Mannix (2019 –)
- Experimental Psychology 2014 (Primary lecturer)
- Introduction to Experimental Psychology 2014 (Primary lecturer)

University of Copenhagen

- Statistics 2011 (SPSS-statistics tutor; lectures and exercise sessions)

University of Iceland

- Academic supervisor of Jennifer Magerl (2023 –)
- PhD co-supervisor of Aleksei Iakovlev (graduated; 2023 – 2024)
- Co-supervisor of post-doc Léa Entzmann (2023 – 2024)
- Co-supervisor of post-doc Vladislav Khvostov (2023 – 2024)
- Secondary advisor to 7 BSc. students at the dept. Psychology.
- History of Psychology 2012 (managed mandatory discussion groups)
- Perception and Cognition A 2012 (a single guest lecture)
- Perception and Cognition B 2010 (two lectures, managed discussion groups, lab tutor, report and exam grading)
- Methodology 2010 (SPSS-statistics tutor; lectures, exercises, examination and grading)
- Perception and Cognition B 2009 (two lectures, managing discussion groups, lab tutoring, grading)
- Methodology 2009 (SPSS-statistics tutor; lectures, exercises, examination and grading)
- Perception and Cognition B 2008 (managed discussion groups, lab tutor, report grading)
- Introduction to Psychology 2007 (grading, managed discussions and revision sessions)
- Explaining Behavior 2007 (technical assistance, examination and grading)
- Perception and Cognition A 2007 (lab tutor, grading)

TECHNICAL SKILLS

- Data analysis and programming: R, Rstudio, Matlab, Excel, JASP, JAMOVI, Python, SPSS.
- Text editing: \LaTeX , Overleaf, MS word, Rmarkdown/Quarto.
- Referencing: Bib \TeX , Zotero, Papers, Mendeley.
- Experimental programming: PsychToolbox, E-prime, OpenSesame, PsychoPy/Pavlovia.
- Research Tools: EyeLink 1000, CRS High Speed Eyetracker, Tobii, BioSemi EEG, BrainAmp EEG, CRS bits++/bits# stimulus processors, CRS ColorCall.
- Teaching: Canvas, moodle, panopto, piazza, ucla
- Communication: Teams, Canvas, zoom
- Admin: ucla, kolur, orri, Pure RIS, orcid

PEER-REVIEW for

Journals:

- *Attention, Perception & Psychophysics*
- *Behavioural Research Methods*
- *Cognitive Neuroscience*
- *Journal of Cognitive Psychology*
- *Journal of Experimental Psychology: General*
- *Journal of Experimental Psychology: Human Perception and Performance*
- *Journal of Experimental Psychology: Learning, Memory and Cognition*
- *Netla - vef tímarit um uppeldi og menntun*
- *Perception*
- *PLoS One*
- *Psychological Reports*

Funding agencies:

- RANNÍS - *The Icelandic Centre for Research*

GRANTS

- 2022 - RANNÍS: *Icelandic Research Fund. Project: Probabilistic Attentional Selection (estimated 3 years). Joint application with Árni Kristjánsson, University of Iceland.* ISK 20.820.000.- (per annum)
- 2002 - *University of Akureyri Research Centre* ISK 700.000.-
- 2018 - RANNÍS: *Infrastructure fund. Grant to purchase BrainAmp EEG equipment.* ISK 2,666,000.-
- 2017 - *Icelandic Student Innovation Fund. Grant to hire a student for the Development of an application to register grapheme-color associations in synesthesia* ISK 699.000.-
- 2017 - *Startup grant for the Perception and Performance Lab at the University of Akureyri. Funding agency: University of Akureyri Research Centre* ISK 401.000.-
- 2016 - *Co-applicant, Project: Synaesthesia – the Roles of Association Learning and of Differential Brain Development. Funding agency: Det Frie Forskningsråd* DKK 6.355.713.-
- 2013 - *Co-applicant, The Synesthesia Project. Grant to start synesthesia research at the University of Copenhagen. Funding agency: Kristian Holt-Hansen fonden* DKK 70.000.-

EXTERNAL EXAMINATIONS

- 2017 – present - *University of Iceland: Examiner of MSc./cand.psych dissertations*
- 2021 - *HSE University, Moscow: Examiner of MSc. thesis*

MEMBERSHIPS

*Co-Principal Investigator at the Icelandic Vision Lab (www.visionlab.is)
Centre for Cognitive Neuroscience, Aalborg University
Vision Sciences Society
Founding Member of Icelandic Society for Neuroscience
iTVA Network
The Synesthesia Project (www.synesthesiaproject.wordpress.com)*

PRIMARY ACADEMIC INTERESTS

visual perception, visual cognition and attention, synesthesia, arousal and attention, visual memory, cognitive modeling, task history effects, experimental methodology, visual imagery