

# Krish Sathian

## List of Publications by Year in descending order

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Version: 2024-02-01

119  
papers

7,210  
citations

41344

49  
h-index

58581

82  
g-index

132  
all docs

132  
docs citations

132  
times ranked

5091  
citing authors

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | Toward rational use of cognitive training in those with mild cognitive impairment. <i>Alzheimer's and Dementia</i> , 2023, 19, 933-945.  | 0.8 | 3         |
| 2  | Consistency and strength of grapheme-color associations are separable aspects of synesthetic experience. <i>Consciousness and Cognition</i> , 2021, 91, 103137.  | 1.5 | 3         |
| 3  | Neural Basis of the Sound-Symbolic Crossmodal Correspondence Between Auditory Pseudowords and Visual Shapes. <i>Multisensory Research</i> , 2021, 35, 29-78.   | 1.1 | 7         |
| 4  | Mnemonic strategy training increases neocortical activation in healthy older adults and patients with mild cognitive impairment. <i>International Journal of Psychophysiology</i> , 2020, 154, 27-36.  | 1.0 | 18        |
| 5  | Model-based assessment and neural correlates of spatial memory deficits in mild cognitive impairment. <i>Neuropsychologia</i> , 2020, 136, 107251.   | 1.6 | 6         |
| 6  | Audiovisual crossmodal correspondences. , 2020, , 239-258.   |     | 9         |
| 7  | Crossmodal Visuospatial Effects on Auditory Perception of Musical Contour. <i>Multisensory Research</i> , 2020, 34, 113-127.   | 1.1 | 1         |
| 8  | Primary motor cortical activity during unimanual movements with increasing demand on precision. <i>Journal of Neurophysiology</i> , 2020, 124, 728-739.  | 1.8 | 14        |
| 9  | Stimulus Parameters Underlying Sound-Symbolic Mapping of Auditory Pseudowords to Visual Shapes. <i>Cognitive Science</i> , 2020, 44, e12883.   | 1.7 | 13        |
| 10 | Visuo-haptic object perception. , 2020, , 157-178.   |     | 5         |
| 11 | Cross-Modal and Multisensory Interactions Between Vision and Touch. , 2020, , 324-332.   |     | 0         |
| 12 | Neural basis of the crossmodal correspondence between auditory pitch and visuospatial elevation. <i>Neuropsychologia</i> , 2018, 112, 19-30.   | 1.6 | 26        |
| 13 | Accounting for Non-Gaussian Sources of Spatial Correlation in Parametric Functional Magnetic Resonance Imaging Paradigms II: A Method to Obtain First-Level Analysis Residuals with Uniform and Gaussian Spatial Autocorrelation Function and Independent and Identically Distributed Time-Series. <i>Brain Connectivity</i> , 2018, 8, 10-21. | 1.7 | 7         |
| 14 | Accounting for Non-Gaussian Sources of Spatial Correlation in Parametric Functional Magnetic Resonance Imaging Paradigms I: Revisiting Cluster-Based Inferences. <i>Brain Connectivity</i> , 2018, 8, 1-9.   | 1.7 | 10        |
| 15 | 2334 Neural correlates of externally Versus internally guided dance-based therapies for people with Parkinson's disease. <i>Journal of Clinical and Translational Science</i> , 2018, 2, 21-21.  | 0.6 | 1         |
| 16 | Diminished neural network dynamics in amnesic mild cognitive impairment. <i>International Journal of Psychophysiology</i> , 2018, 130, 63-72.  | 1.0 | 11        |
| 17 | Neuroimaging somatosensory perception and masking. <i>Neuropsychologia</i> , 2017, 94, 44-51.  | 1.6 | 7         |
| 18 | Enhanced verbal abilities in the congenitally blind. <i>Experimental Brain Research</i> , 2017, 235, 1709-1718.  | 1.5 | 14        |

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|----|---|-----|-----------|
| 19 | Interactions Between Auditory Elevation, Auditory Pitch and Visual Elevation During Multisensory Perception. <i>Multisensory Research</i> , 2017, 30, 287-306.  | 1.1 | 20        |
| 20 | Alterations of resting-state fMRI measurements in individuals with cervical dystonia. <i>Human Brain Mapping</i> , 2017, 38, 4098-4108.   | 3.6 | 45        |
| 21 | Consciousness post corpus callosotomy. <i>Brain</i> , 2017, 140, e38-e38.   | 7.6 | 1         |
| 22 | Engagement of the left extrastriate body area during body-part metaphor comprehension. <i>Brain and Language</i> , 2017, 166, 1-18.   | 1.6 | 25        |
| 23 | Translational MRI Volumetry with NeuroQuant: Effects of Version and Normative Data on Relationships with Memory Performance in Healthy Older Adults and Patients with Mild Cognitive Impairment. <i>Journal of Alzheimer's Disease</i> , 2017, 60, 1499-1510. | 2.6 | 22        |
| 24 | A Functional Magnetic Resonance Imaging Study of Head Movements in Cervical Dystonia. <i>Frontiers in Neurology</i> , 2016, 7, 201.   | 2.4 | 29        |
| 25 | Analysis of haptic information in the cerebral cortex. <i>Journal of Neurophysiology</i> , 2016, 116, 1795-1806.  | 1.8 | 74        |
| 26 | Synesthesia strengthens sound-symbolic cross-modal correspondences. <i>European Journal of Neuroscience</i> , 2016, 44, 2716-2721.  | 2.6 | 30        |
| 27 | Crossmodal and Multisensory Interactions Between Vision and Touch. , 2016, , 301-315.   |     | 8         |
| 28 | Haptic Object Recognition is View-Independent in Early Blind but not Sighted People. <i>Perception</i> , 2016, 45, 337-345.   | 1.2 | 4         |
| 29 | Patterns of effective connectivity during memory encoding and retrieval differ between patients with mild cognitive impairment and healthy older adults. <i>NeuroImage</i> , 2016, 124, 997-1008.   | 4.2 | 42        |
| 30 | Superior verbal abilities in congenital blindness. <i>IS&amp;T International Symposium on Electronic Imaging</i> , 2016, 28, 1-4.   | 0.4 | 14        |
| 31 | Neural Substrates for Head Movements in Humans: A Functional Magnetic Resonance Imaging Study. <i>Journal of Neuroscience</i> , 2015, 35, 9163-9172.  | 3.6 | 14        |
| 32 | Structure-Function Correlations in Stroke. <i>Neuron</i> , 2015, 85, 887-889.   | 8.1 | 11        |
| 33 | Crossmodal and multisensory interactions between vision and touch. <i>Scholarpedia Journal</i> , 2015, 10, 7957.  | 0.3 | 9         |
| 34 | Loss of form vision impairs spatial imagery. <i>Frontiers in Human Neuroscience</i> , 2014, 8, 159.   | 2.0 | 10        |
| 35 | Visuo-haptic multisensory object recognition, categorization, and representation. <i>Frontiers in Psychology</i> , 2014, 5, 730.  | 2.1 | 75        |
| 36 | Differential patterns of cortical reorganization following constraint-induced movement therapy during early and late period after stroke: A preliminary study. <i>NeuroRehabilitation</i> , 2014, 35, 415-426.  | 1.3 | 41        |

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|----|---|-----|-----------|
| 37 | Oscillatory activity in neocortical networks during tactile discrimination near the limit of spatial acuity. <i>NeuroImage</i> , 2014, 91, 300-310.   | 4.2 | 47        |
| 38 | Spatial imagery in haptic shape perception. <i>Neuropsychologia</i> , 2014, 60, 144-158.  | 1.6 | 44        |
| 39 | Neural Changes with Tactile Learning Reflect Decision-Level Reweighting of Perceptual Readout. <i>Journal of Neuroscience</i> , 2013, 33, 5387-5398.  | 3.6 | 54        |
| 40 | Spatial imagery is more associated with unfamiliar than familiar haptic shape perception: Activation and connectivity analyses. <i>Multisensory Research</i> , 2013, 26, 162-163.   | 1.1 | 0         |
| 41 | Visual Imagery in Haptic Shape Perception. , 2013, , 207-219.   |     | 3         |
| 42 | A rigorous approach for testing the constructionist hypotheses of brain function. <i>Behavioral and Brain Sciences</i> , 2012, 35, 148-149.   | 0.7 | 13        |
| 43 | Mnemonic strategy training improves memory for object location associations in both healthy elderly and patients with amnesic mild cognitive impairment: A randomized, single-blind study.. <i>Neuropsychology</i> , 2012, 26, 385-399.       | 1.3 | 77        |
| 44 | Metaphorically feeling: Comprehending textural metaphors activates somatosensory cortex. <i>Brain and Language</i> , 2012, 120, 416-421.  | 1.6 | 179       |
| 45 | Mnemonic strategy training partially restores hippocampal activity in patients with mild cognitive impairment. <i>Hippocampus</i> , 2012, 22, 1652-1658.  | 1.9 | 131       |
| 46 | Dual pathways for haptic and visual perception of spatial and texture information. <i>NeuroImage</i> , 2011, 57, 462-475.   | 4.2 | 143       |
| 47 | Art for reward's sake: Visual art recruits the ventral striatum. <i>NeuroImage</i> , 2011, 55, 420-433.   | 4.2 | 236       |
| 48 | Where did I put that? Patients with amnesic mild cognitive impairment demonstrate widespread reductions in activity during the encoding of ecologically relevant object-location associations. <i>Neuropsychologia</i> , 2011, 49, 2349-2361. | 1.6 | 51        |
| 49 | Object and spatial imagery dimensions in visuo-haptic representations. <i>Experimental Brain Research</i> , 2011, 213, 267-273.   | 1.5 | 26        |
| 50 | Multisensory object representation. <i>Progress in Brain Research</i> , 2011, 191, 165-176.   | 1.4 | 35        |
| 51 | Activation and Effective Connectivity Changes Following Explicit-Memory Training for Face-Name Pairs in Patients With Mild Cognitive Impairment. <i>Neurorehabilitation and Neural Repair</i> , 2011, 25, 210-222.                            | 2.9 | 122       |
| 52 | Neurological Principles and Rehabilitation of Action Disorders. <i>Neurorehabilitation and Neural Repair</i> , 2011, 25, 21S-32S.   | 2.9 | 78        |
| 53 | Representation of Object Form in Vision and Touch. <i>Frontiers in Neuroscience</i> , 2011, , 179-188.  | 0.0 | 2         |
| 54 | Assessing and Compensating for Zero-Lag Correlation Effects in Time-Lagged Granger Causality Analysis of fMRI. <i>IEEE Transactions on Biomedical Engineering</i> , 2010, 57, 1446-1456.  | 4.2 | 89        |

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|----|---|-----|-----------|
| 55 | Tactile shape discrimination recruits human lateral occipital complex during early perceptual processing. <i>Human Brain Mapping</i> , 2010, 31, 1813-1821.   | 3.6 | 47        |
| 56 | Are surface properties integrated into visuohaptic object representations?. <i>European Journal of Neuroscience</i> , 2010, 31, 1882-1888.  | 2.6 | 22        |
| 57 | Semantic confusion regarding the development of multisensory integration: a practical solution. <i>European Journal of Neuroscience</i> , 2010, 31, 1713-1720.  | 2.6 | 107       |
| 58 | Cross-modal plasticity of tactile perception in blindness. <i>Restorative Neurology and Neuroscience</i> , 2010, 28, 271-281.   | 0.7 | 77        |
| 59 | Use of complex three-dimensional objects to assess visuospatial memory in healthy individuals and patients with unilateral amygdalohippocampectomy. <i>Epilepsy and Behavior</i> , 2010, 18, 54-60.                                     | 1.7 | 6         |
| 60 | Object familiarity modulates effective connectivity during haptic shape perception. <i>NeuroImage</i> , 2010, 49, 1991-2000.  | 4.2 | 89        |
| 61 | Object familiarity modulates the relationship between visual object imagery and haptic shape perception. <i>NeuroImage</i> , 2010, 49, 1977-1990.   | 4.2 | 81        |
| 62 | Effect of hemodynamic variability on Granger causality analysis of fMRI. <i>NeuroImage</i> , 2010, 52, 884-896.   | 4.2 | 169       |
| 63 | Perceptual versus attentional factors in visual search. <i>Journal of Vision</i> , 2010, 2, 540-540.  | 0.3 | 0         |
| 64 | Mirror, Mirror, Move My Manu!. <i>Neurorehabilitation and Neural Repair</i> , 2009, 23, 207-208.  | 2.9 | 6         |
| 65 | A Putative Model of Multisensory Object Representation. <i>Brain Topography</i> , 2009, 21, 269-274.  | 1.8 | 156       |
| 66 | Tactile co-activation improves detection of afferent spatial modulation. <i>Experimental Brain Research</i> , 2009, 194, 409-417.   | 1.5 | 1         |
| 67 | Perceptual learning of view-independence in visuo-haptic object representations. <i>Experimental Brain Research</i> , 2009, 198, 329-337.   | 1.5 | 40        |
| 68 | Changes in Resting State Effective Connectivity in the Motor Network Following Rehabilitation of Upper Extremity Poststroke Paresis. <i>Topics in Stroke Rehabilitation</i> , 2009, 16, 270-281.  | 1.9 | 89        |
| 69 | Cross-Modal Interactions Between Vision and Touch. , 2009, , 259-263.   |     | 0         |
| 70 | Selective visuo-haptic processing of shape and texture. <i>Human Brain Mapping</i> , 2008, 29, 1123-1138.   | 3.6 | 186       |
| 71 | Explicit memory training leads to improved memory for face-name pairs in patients with mild cognitive impairment: Results of a pilot investigation. <i>Journal of the International Neuropsychological Society</i> , 2008, 14, 883-889. | 1.8 | 87        |
| 72 | Haptically evoked activation of visual cortex. , 2008, , 251-257.   |     | 5         |

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|----|---|-----|-----------|
| 73 | Effective connectivity during haptic perception: A study using Granger causality analysis of functional magnetic resonance imaging data. <i>NeuroImage</i> , 2008, 40, 1807-1814. | 4.2 | 167       |
| 74 | Constraint-Induced Movement Therapy Results in Increased Motor Map Area in Subjects 3 to 9 Months After Stroke. <i>Neurorehabilitation and Neural Repair</i> , 2008, 22, 505-513. | 2.9 | 190       |
| 75 | Neural processing underlying tactile microspatial discrimination in the blind: A functional magnetic resonance imaging study. <i>Journal of Vision</i> , 2008, 8, 13-13.          | 0.3 | 70        |
| 76 | Cross-Modal and Multisensory Interactions between Vision and Touch. , 2008, , 393-404.  |     | 1         |
| 77 | January 16 Highlight and Commentary: Subspecialization within somatosensory cortex. <i>Neurology</i> , 2007, 68, 167-167.   | 1.1 | 3         |
| 78 | Journeying beyond classical somatosensory cortex.. <i>Canadian Journal of Experimental Psychology</i> , 2007, 61, 254-264.  | 0.8 | 32        |
| 79 | JANUARY 16 HIGHLIGHT AND COMMENTARY: SUBSPECIALIZATION WITHIN SOMATOSENSORY CORTEX. <i>Neurology</i> , 2007, 68, 1955-1956.   | 1.1 | 0         |
| 80 | Multifaceted functional specialization of somatosensory information processing. <i>Behavioral and Brain Sciences</i> , 2007, 30, 219-220.   | 0.7 | 2         |
| 81 | Posteromedial Parietal Cortical Activity and Inputs Predict Tactile Spatial Acuity. <i>Journal of Neuroscience</i> , 2007, 27, 11091-11102.                                       | 3.6 | 84        |
| 82 | Vision and Touch: Multiple or Multisensory Representations of Objects?. <i>Perception</i> , 2007, 36, 1513-1521.  | 1.2 | 93        |
| 83 | Cross-Modal Object Recognition Is Viewpoint-Independent. <i>PLoS ONE</i> , 2007, 2, e890.   | 2.5 | 65        |
| 84 | Activity and effective connectivity of parietal and occipital cortical regions during haptic shape perception. <i>Neuropsychologia</i> , 2007, 45, 476-483.                       | 1.6 | 145       |
| 85 | Cross-modal Involvement of Visual Cortex in Tactile Perception. , 2007, , 119-134.  |     | 2         |
| 86 | Mirror-image symmetry and search asymmetry: A comparison of their effects on visual search and a possible unifying explanation. <i>Vision Research</i> , 2006, 46, 1263-1281.     | 1.4 | 6         |
| 87 | Somatosensory Processing Is Impaired in Temporal Lobe Epilepsy. <i>Epilepsia</i> , 2005, 46, 534-539.   | 5.1 | 12        |
| 88 | Tactile discrimination of grating orientation: fMRI activation patterns. <i>Human Brain Mapping</i> , 2005, 25, 370-377.  | 3.6 | 120       |
| 89 | Visual cortical activity during tactile perception in the sighted and the visually deprived. <i>Developmental Psychobiology</i> , 2005, 46, 279-286.                              | 1.6 | 154       |
| 90 | Short-term visual deprivation alters neural processing of tactile form. <i>Experimental Brain Research</i> , 2005, 166, 572-582.  | 1.5 | 58        |

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|-----|---|------|-----------|
| 91  | Modality, quo vadis?. Behavioral and Brain Sciences, 2004, 27, 413-414.   | 0.7  | 11        |
| 92  | Task-specific recruitment of dorsal and ventral visual areas during tactile perception. Neuropsychologia, 2004, 42, 1079-1087.  | 1.6  | 133       |
| 93  | Multisensory cortical processing of object shape and its relation to mental imagery. Cognitive, Affective and Behavioral Neuroscience, 2004, 4, 251-259.  | 2.0  | 168       |
| 94  | Neural networks active during tactile form perception: common and differential activity during macrospatial and microspatial tasks. International Journal of Psychophysiology, 2003, 50, 41-49. | 1.0  | 99        |
| 95  | The buzz of consciousness. Neurology, 2002, 59, 800-801.  | 1.1  | 2         |
| 96  | Feeling with the mind's eye: contribution of visual cortex to tactile perception. Behavioural Brain Research, 2002, 135, 127-132.   | 2.2  | 114       |
| 97  | Mental rotation of tactile stimuli. Cognitive Brain Research, 2002, 14, 91-98.  | 3.0  | 42        |
| 98  | Feeling with the Mind's Eye: the Role of Visual Imagery in Tactile Perception. Optometry and Vision Science, 2001, 78, 276-281.   | 1.2  | 51        |
| 99  | Temporal Cues Contribute to Tactile Perception of Roughness. Journal of Neuroscience, 2001, 21, 5289-5296.  | 3.6  | 153       |
| 100 | Tactile perception in blind Braille readers: A psychophysical study of acuity and hyperacuity using gratings and dot patterns. Perception & Psychophysics, 2000, 62, 301-312.                   | 2.3  | 180       |
| 101 | Doing It with Mirrors: A Case Study of a Novel Approach to Neurorehabilitation. Neurorehabilitation and Neural Repair, 2000, 14, 73-76.   | 2.9  | 180       |
| 102 | Practice makes perfect. Neurology, 2000, 54, 2203-2204.   | 1.1  | 41        |
| 103 | Intermanual referral of sensation to anesthetic hands. Neurology, 2000, 54, 1866-1868.  | 1.1  | 41        |
| 104 | Neural Evidence Linking Visual Object Enumeration and Attention. Journal of Cognitive Neuroscience, 1999, 11, 36-51.  | 2.3  | 164       |
| 105 | Involvement of visual cortex in tactile discrimination of orientation. Nature, 1999, 401, 587-590.  | 27.8 | 469       |
| 106 | Tactile perception in developmental dyslexia: a psychophysical study using gratings. Neuropsychologia, 1999, 37, 1201-1211.   | 1.6  | 52        |
| 107 | Do the magnocellular and parvocellular visual pathways contribute differentially to subitizing and counting?. Perception & Psychophysics, 1998, 60, 451-464.                                    | 2.3  | 24        |
| 108 | Perceptual learning in tactile hyperacuity: complete intermanual transfer but limited retention. Experimental Brain Research, 1998, 118, 131-134.   | 1.5  | 55        |

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|-----|---|-----|-----------|
| 109 | Tactile spatial acuity and roughness discrimination: Impairments due to aging and Parkinson's disease. <i>Neurology</i> , 1997, 49, 168-177.  | 1.1 | 120       |
| 110 | Feeling with the mind¼s eye. <i>NeuroReport</i> , 1997, 8, 3877-3881.   | 1.2 | 236       |
| 111 | Tactile learning is task specific but transfers between fingers. <i>Perception &amp; Psychophysics</i> , 1997, 59, 119-128.   | 2.3 | 99        |
| 112 | Tactile spatial acuity at the human fingertip and lip. <i>Neurology</i> , 1996, 46, 1464-1464.  | 1.1 | 107       |
| 113 | Motion perception in Alzheimer's disease. <i>Neurology</i> , 1995, 45, 1633-1634.   | 1.1 | 5         |
| 114 | Neuronal Responses in Ventroposterolateral Nucleus of Thalamus in Monkeys ( <i>Macaca mulatta</i> ) during Active Touch of Gratings. <i>Somatosensory &amp; Motor Research</i> , 1991, 8, 293-300.                  | 0.9 | 10        |
| 115 | The role of spatially selective attention in the tactile perception of texture. <i>Perception &amp; Psychophysics</i> , 1991, 50, 237-248.  | 2.3 | 64        |
| 116 | Altered responses to cutaneous stimuli in the second somatosensory cortex following lesions of the postcentral gyrus in infant and juvenile macaques. <i>Journal of Comparative Neurology</i> , 1990, 291, 395-414. | 1.6 | 52        |
| 117 | Perceived roughness of a grating: correlation with responses of mechanoreceptive afferents innervating the monkey's fingerpad. <i>Journal of Neuroscience</i> , 1989, 9, 1273-1279.                                 | 3.6 | 98        |
| 118 | Spatial and temporal factors determining afferent fiber responses to a grating moving sinusoidally over the monkey's fingerpad. <i>Journal of Neuroscience</i> , 1989, 9, 1280-1293.                                | 3.6 | 61        |
| 119 | Tactile sensing of surface features. <i>Trends in Neurosciences</i> , 1989, 12, 513-519.  | 8.6 | 39        |