# Michael S Beauchamp

List of Publications by Year
in descending order



| | | | |
|---|---|---|---|
| 106 papers | 9,256 citations | 50276 46 h-index | 43889 91 g-index |
| 123 all docs | 123 docs citations | 123 times ranked | 8066 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Integration of Auditory and Visual Information about Objects in Superior Temporal Sulcus. Neuron, 2004, 41, 809-823. | 8.1 | 636 |
| 2 | Unraveling multisensory integration: patchy organization within human STS multisensory cortex. Nature Neuroscience, 2004, 7, 1190-1192. | 14.8 | 478 |
| 3 | Parallel Visual Motion Processing Streams for Manipulable Objects and Human Movements. Neuron, 2002, 34, 149-159. | 8.1 | 473 |
| 4 | fMRI Responses to Video and Point-Light Displays of Moving Humans and Manipulable Objects. Journal of Cognitive Neuroscience, 2003, 15, 991-1001. | 2.3 | 410 |
| 5 | A common neural substrate for perceiving and knowing about color. Neuropsychologia, 2007, 45, 2802-2810. | 1.6 | 395 |
| 6 | A new method for improving functional-to-structural MRI alignment using local Pearson correlation. NeuroImage, 2009, 44, 839-848. | 4.2 | 368 |
| 7 | See me, hear me, touch me: multisensory integration in lateral occipital-temporal cortex. Current Opinion in Neurobiology, 2005, 15, 145-153. | 4.2 | 343 |
| 8 | Functional imaging of human crossmodal identification and object recognition. Experimental Brain Research, 2005, 166, 559-571. | 1.5 | 330 |
| 9 | A Parametric fMRI Study of Overt and Covert Shifts of Visuospatial Attention. NeuroImage, 2001, 14, 310-321. | 4.2 | 324 |
| 10 | A neural basis for interindividual differences in the McGurk effect, a multisensory speech illusion. NeuroImage, 2012, 59, 781-787. | 4.2 | 250 |
| 11 | Graded Effects of Spatial and Featural Attention on Human Area MT and Associated Motion Processing Areas. Journal of Neurophysiology, 1997, 78, 516-520. | 1.8 | 238 |
| 12 | fMRI-Guided Transcranial Magnetic Stimulation Reveals That the Superior Temporal Sulcus Is a Cortical Locus of the McGurk Effect. Journal of Neuroscience, 2010, 30, 2414-2417. | 3.6 | 209 |
| 13 | Statistical Criteria in fMRI Studies of Multisensory Integration. Neuroinformatics, 2005, 3, 093-114. | 2.8 | 201 |
| 14 | Simplified intersubject averaging on the cortical surface using SUMA. Human Brain Mapping, 2006, 27, 14-27. | 3.6 | 195 |
| 15 | An fMRI Version of the Farnsworth-Munsell 100-Hue Test Reveals Multiple Color-selective Areas in Human Ventral Occipitotemporal Cortex. Cerebral Cortex, 1999, 9, 257-263. | 2.9 | 189 |
| 16 | Touch, sound and vision in human superior temporal sulcus. NeuroImage, 2008, 41, 1011-1020. | 4.2 | 178 |
| 17 | Automatic Priming of Semantically Related Words Reduces Activity in the Fusiform Gyrus. Journal of Cognitive Neuroscience, 2005, 17, 1871-1885. | 2.3 | 159 |
| 18 | Dynamic Changes in Superior Temporal Sulcus Connectivity during Perception of Noisy Audiovisual Speech. Journal of Neuroscience, 2011, 31, 1704-1714. | 3.6 | 153 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | FMRI group analysis combining effect estimates and their variances. NeuroImage, 2012, 60, 747-765. | 4.2 | 149 |
| 20 | Grounding Object Concepts in Perception and Action: Evidence from FMRI Studies of Tools. Cortex, 2007, 43, 461-468. | 2.4 | 139 |
| 21 | Dynamic Stimulation of Visual Cortex Produces Form Vision in Sighted and Blind Humans. Cell, 2020, 181, 774-783.e5. | 28.9 | 137 |
| 22 | Auditory cortex activation to natural speech and simulated cochlear implant speech measured with functional near-infrared spectroscopy. Hearing Research, 2014, 309, 84-93. | 2.0 | 136 |
| 23 | Tactile form and location processing in the human brain. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 12601-12605. | 7.1 | 129 |
| 24 | Variability and stability in the McGurk effect: contributions of participants, stimuli, time, and response type. Psychonomic Bulletin and Review, 2015, 22, 1299-1307. | 2.8 | 123 |
| 25 | Dissociation of face-selective cortical responses by attention. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 1065-1070. | 7.1 | 116 |
| 26 | Human MST But Not MT Responds to Tactile Stimulation. Journal of Neuroscience, 2007, 27, 8261-8267. | 3.6 | 107 |
| 27 | Perceiving electrical stimulation of identified human visual areas. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 5389-5393. | 7.1 | 102 |
| 28 | Neuroimaging with near-infrared spectroscopy demonstrates speech-evoked activity in the auditory cortex of deaf children following cochlear implantation. Hearing Research, 2010, 270, 39-47. | 2.0 | 95 |
| 29 | The Developmental Trajectory of Brain-Scalp Distance from Birth through Childhood: Implications for Functional Neuroimaging. PLoS ONE, 2011, 6, e24981. | 2.5 | 89 |
| 30 | Feeling sounds after a thalamic lesion. Annals of Neurology, 2007, 62, 433-441. | 5.3 | 84 |
| 31 | TMS of posterior parietal cortex disrupts visual tactile multisensory integration. European Journal of Neuroscience, 2010, 31, 1783-1790. | 2.6 | 84 |
| 32 | Perception Matches Selectivity in the Human Anterior Color Center. Current Biology, 2008, 18, 216-220. | 3.9 | 82 |
| 33 | Neural Substrates of Soundâ€“Touch Synesthesia after a Thalamic Lesion. Journal of Neuroscience, 2008, 28, 13696-13702. | 3.6 | 81 |
| 34 | Surface Area Accounts for the Relation of Gray Matter Volume to Reading-Related Skills and History of Dyslexia. Cerebral Cortex, 2010, 20, 2625-2635. | 2.9 | 78 |
| 35 | Causal inference of asynchronous audiovisual speech. Frontiers in Psychology, 2013, 4, 798. | 2.1 | 77 |
| 36 | Neural Basis of Visually Guided Head Movements Studied With fMRI. Journal of Neurophysiology, 2003, 89, 2516-2527. | 1.8 | 73 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | The social mysteries of the superior temporal sulcus. Trends in Cognitive Sciences, 2015, 19, 489-490. | 7.8 | 72 |
| 38 | Sound enhances touch perception. Experimental Brain Research, 2009, 195, 135-143. | 1.5 | 68 |
| 39 | Neural Correlates of Interindividual Differences in Children's Audiovisual Speech Perception. Journal of Neuroscience, 2011, 31, 13963-13971. | 3.6 | 68 |
| 40 | Electrical Stimulation of Visual Cortex: Relevance for the Development of Visual Cortical Prosthetics. Annual Review of Vision Science, 2017, 3, 141-166. | 4.4 | 68 |
| 41 | A Causal Inference Model Explains Perception of the McGurk Effect and Other Incongruent Audiovisual Speech. PLoS Computational Biology, 2017, 13, e1005229. | 3.2 | 68 |
| 42 | Functionally Distinct Gamma Range Activity Revealed by Stimulus Tuning in Human Visual Cortex. Current Biology, 2019, 29, 3345-3358.e7. | 3.9 | 68 |
| 43 | Temporal lobe white matter asymmetry and language laterality in epilepsy patients. NeuroImage, 2010, 49, 2033-2044. | 4.2 | 65 |
| 44 | Electrocorticography links human temporoparietal junction to visual perception. Nature Neuroscience, 2012, 15, 957-959. | 14.8 | 58 |
| 45 | A Neural Link Between Feeling and Hearing. Cerebral Cortex, 2013, 23, 1724-1730. | 2.9 | 58 |
| 46 | Cortical Activation Patterns Correlate with Speech Understanding After Cochlear Implantation. Ear and Hearing, 2016, 37, e160-e172. | 2.1 | 58 |
| 47 | A link between individual differences in multisensory speech perception and eye movements. Attention, Perception, and Psychophysics, 2015, 77, 1333-1341. | 1.3 | 56 |
| 48 | Saturation in Phosphene Size with Increasing Current Levels Delivered to Human Visual Cortex. Journal of Neuroscience, 2017, 37, 7188-7197. | 3.6 | 54 |
| 49 | Relationships between essential cortical language sites and subcortical pathways. Journal of Neurosurgery, 2009, 111, 755-766. | 1.6 | 48 |
| 50 | Social Perception in Autism Spectrum Disorders: Impaired Category Selectivity for Dynamic but not Static Images in Ventral Temporal Cortex. Cerebral Cortex, 2014, 24, 37-48. | 2.9 | 46 |
| 51 | Neural substrates of reliability-weighted visual-tactile multisensory integration. Frontiers in Systems Neuroscience, 2010, 4, 25. | 2.5 | 45 |
| 52 | The noisy encoding of disparity model of the McGurk effect. Psychonomic Bulletin and Review, 2015, 22, 701-709. | 2.8 | 45 |
| 53 | Multisensory speech perception without the left superior temporal sulcus. NeuroImage, 2012, 62, 1825-1832. | 4.2 | 43 |
| 54 | A Double Dissociation between Anterior and Posterior Superior Temporal Gyrus for Processing Audiovisual Speech Demonstrated by Electrocorticography. Journal of Cognitive Neuroscience, 2017, 29, 1044-1060. | 2.3 | 43 |

| # | Article | IF | Citations |
|---|---|---|---|
| 55 | Distributed representation of single touches in somatosensory and visual cortex. Human Brain Mapping, 2009, 30, 3163-3171. | 3.6 | 42 |
| 56 | Detection of eye movements from fMRI data. Magnetic Resonance in Medicine, 2003, 49, 376-380. | 3.0 | 41 |
| 57 | A functional MRI case study of acquired cerebral dyschromatopsia. Neuropsychologia, 2000, 38, 1170-1179. | 1.6 | 40 |
| 58 | Continued access to investigational brain implants. Nature Reviews Neuroscience, 2018, 19, 317-318. | 10.2 | 38 |
| 59 | The visual speech head start improves perception and reduces superior temporal cortex responses to auditory speech. ELife, 2019, 8, . | 6.0 | 36 |
| 60 | Mouth and Voice: A Relationship between Visual and Auditory Preference in the Human Superior Temporal Sulcus. Journal of Neuroscience, 2017, 37, 2697-2708. | 3.6 | 35 |
| 61 | Similar frequency of the McGurk effect in large samples of native Mandarin Chinese and American English speakers. Experimental Brain Research, 2015, 233, 2581-2586. | 1.5 | 33 |
| 62 | Crossmodal Phase Reset and Evoked Responses Provide Complementary Mechanisms for the Influence of Visual Speech in Auditory Cortex. Journal of Neuroscience, 2020, 40, 8530-8542. | 3.6 | 33 |
| 63 | Re-examining overlap between tactile and visual motion responses within hMT + and STS. NeuroImage, 2015, 119, 187-196. | 4.2 | 31 |
| 64 | Ethical commitments, principles, and practices guiding intracranial neuroscientific research in humans. Neuron, 2022, 110, 188-194. | 8.1 | 29 |
| 65 | Frontal cortex selects representations of the talkerâ€™s mouth to aid in speech perception. ELife, 2018, 7, . | 6.0 | 26 |
| 66 | Is a single â€˜hubâ€™, with lots of spokes, an accurate description of the neural architecture of action semantics?. Physics of Life Reviews, 2014, 11, 261-262. | 2.8 | 23 |
| 67 | Greater BOLD Variability in Older Compared with Younger Adults during Audiovisual Speech Perception. PLoS ONE, 2014, 9, e111121. | 2.5 | 23 |
| 68 | A causal inference explanation for enhancement of multisensory integration by co-articulation. Scientific Reports, 2018, 8, 18032. | 3.3 | 22 |
| 69 | Converging Evidence From Electrocorticography and BOLD fMRI for a Sharp Functional Boundary in Superior Temporal Gyrus Related to Multisensory Speech Processing. Frontiers in Human Neuroscience, 2018, 12, 141. | 2.0 | 22 |
| 70 | Device Removal Following Brain Implant Research. Neuron, 2019, 103, 759-761. | 8.1 | 20 |
| 71 | Multi-electrode stimulation evokes consistent spatial patterns of phosphenes and improves phosphene mapping in blind subjects. Brain Stimulation, 2021, 14, 1356-1372. | 1.6 | 20 |
| 72 | Electrocorticography Reveals Enhanced Visual Cortex Responses to Visual Speech. Cerebral Cortex, 2015, 25, 4103-4110. | 2.9 | 19 |

| # | Article | IF | Citations |
|---|---|---|---|
| 73 | Published estimates of group differences in multisensory integration are inflated. PLoS ONE, 2018, 13, e0202908. | 2.5 | 19 |
| 74 | Electrocorticography reveals continuous auditory and visual speech tracking in temporal and occipital cortex. European Journal of Neuroscience, 2020, 51, 1364-1376. | 2.6 | 19 |
| 75 | Weak observerâ€“level correlation and strong stimulus-level correlation between the McGurk effect and audiovisual speech-in-noise: A causal inference explanation. Cortex, 2020, 133, 371-383. | 2.4 | 18 |
| 76 | Free viewing of talking faces reveals mouth and eye preferring regions of the human superior temporal sulcus. NeuroImage, 2018, 183, 25-36. | 4.2 | 15 |
| 77 | RAVE: Comprehensive open-source software for reproducible analysis and visualization of intracranial EEG data. NeuroImage, 2020, 223, 117341. | 4.2 | 15 |
| 78 | Diminished single-stimulus response in vmPFC to favorite people in children diagnosed with Autism Spectrum Disorder. Biological Psychology, 2019, 145, 174-184. | 2.2 | 14 |
| 79 | Single-Stimulus Functional MRI Produces a Neural Individual Difference Measure for Autism Spectrum Disorder. Clinical Psychological Science, 2015, 3, 422-432. | 4.0 | 12 |
| 80 | Audiovisual Speech Integration. , 2016, , 515-526. | | 12 |
| 81 | Face viewing behavior predicts multisensory gain during speech perception. Psychonomic Bulletin and Review, 2020, 27, 70-77. | 2.8 | 12 |
| 82 | Responses to Visual Speech in Human Posterior Superior Temporal Gyrus Examined with iEEG Deconvolution. Journal of Neuroscience, 2020, 40, 6938-6948. | 3.6 | 11 |
| 83 | Computer-controlled electrical stimulation for quantitative mapping of human cortical function. Journal of Neurosurgery, 2009, 110, 1300-1303. | 1.6 | 10 |
| 84 | Reducing Playback Rate of Audiovisual Speech Leads toÂaÂSurprising Decrease in the McGurk Effect. Multisensory Research, 2018, 31, 19-38. | 1.1 | 8 |
| 85 | Introduction to the Special Issue: Forty Years of the McGurk Effect. Multisensory Research, 2018, 31, 1-6. | 1.1 | 7 |
| 86 | Using principal component analysis to characterize eye movement fixation patterns during face viewing. Journal of Vision, 2019, 19, 2. | 0.3 | 7 |
| 87 | Receptive Language Organization in High-Functioning Autism. Journal of Child Neurology, 2009, 24, 231-236. | 1.4 | 6 |
| 88 | A Laboratory Study of the McGurk Effect in 324 Monozygotic and Dizygotic Twins. Frontiers in Neuroscience, 2019, 13, 1029. | 2.8 | 6 |
| 89 | A relationship between Autism-Spectrum Quotient and face viewing behavior in 98 participants. PLoS ONE, 2020, 15, e0230866. | 2.5 | 5 |
| 90 | Stimulating the brain to restore vision. Science, 2020, 370, 1168-1169. | 12.6 | 4 |

| # | Article | IF | Citations |
|---|---|---|---|
| 91 | Intelligibility of audiovisual sentences drives multivoxel response patterns in human superior temporal cortex. NeuroImage, 2022, 247, 118796. | 4.2 | 3 |
| 92 | Biased Orientation and Color Tuning of the Human Visual Gamma Rhythm. Journal of Neuroscience, 2022, 42, 1054-1067. | 3.6 | 3 |
| 93 | Using Multisensory Integration to Understand the Human Auditory Cortex. Springer Handbook of Auditory Research, 2019, , 161-176. | 0.7 | 2 |
| 94 | Ipsilesional perceptual deficits in hemispatial neglect: Case reports. Cortex, 2020, 122, 277-287. | 2.4 | 2 |
| 95 | Functional Group Bridge for Simultaneous Regression and Support Estimation. Biometrics, 2023, 79, 1226-1238. | 1.4 | 2 |
| 96 | Cortical responses to visual motion: complex human and tool motion compared with simple radial gratings. NeuroImage, 2001, 13, 860. | 4.2 | 1 |
| 97 | 206 Dynamic Stimulation of Human Visual Cortex Produces Useful Percepts of Visual Forms in Sighted and Blind Subjects. Neurosurgery, 2018, 65, 117. | 1.1 | 1 |
| 98 | Raising the stakes for cortical visual prostheses. Journal of Clinical Investigation, 2021, 131, . | 8.2 | 1 |
| 99 | Face and voice perception: Monkey see, monkey hear. Current Biology, 2021, 31, R435-R437. | 3.9 | 0 |
| 100 | Dissociable properties of gamma range activity in human early visual cortex when viewing gratings and natural images. Journal of Vision, 2019, 19, 36b. | 0.3 | 0 |
| 101 | A relationship between Autism-Spectrum Quotient and face viewing behavior in 98 participants. , 2020, 15, e0230866. | | 0 |
| 102 | A relationship between Autism-Spectrum Quotient and face viewing behavior in 98 participants. , 2020, 15, e0230866. | | 0 |
| 103 | A relationship between Autism-Spectrum Quotient and face viewing behavior in 98 participants. , 2020, 15, e0230866. | | 0 |
| 104 | A relationship between Autism-Spectrum Quotient and face viewing behavior in 98 participants. , 2020, 15, e0230866. | | 0 |
| 105 | A relationship between Autism-Spectrum Quotient and face viewing behavior in 98 participants. , 2020, 15, e0230866. | | 0 |
| 106 | A relationship between Autism-Spectrum Quotient and face viewing behavior in 98 participants. , 2020, 15, e0230866. | | 0 |